SAHASRAM ATI SRAJAS



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Sahasram Ati Srajas

Indo-Iranian and Indo-European Studies in Honor of

Stephanie W. Jamison

edited by
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Preface

Best of teachers, staunch colleague, dear friend: Stephanie W. Jamison is not only one of the world's leading Indo-Iranists but someone for whom the presentation of a festschrift, though indubitably a ritual act, is anything but rote. In every aspect of her life she consistently finds and brings out the extraordinary, sometimes in the seemingly ordinary, and we hope that the contents of this volume will be seen as a testament to both her scholarship and her person.

A graduate of Vassar, where she majored in Classics, and then Yale, where she earned her Ph.D. in Linguistics, Stephanie is an Indo-Europeanist, Indologist, and Iranist of the first order. Like the rhimoceros, truly interdisciplinary scholars can be hard to categorize, a fact that hidebound administrators do not always appreciate; indeed, university officials took longer than they should have to bestow on Stephanie the official recognition that her students and colleagues long knew she deserved. Now Distinguished Professor of Asian Languages and Cultures at the University of California, Los Angeles, where she is also a member and sometime Chair of the interdepartmental Program in Indo-European Studies, she previously taught at Yale (in the Department of Linguistics) and Harvard (in the Departments of Linguistics and of Sanskrit and Indian Studies). Her arrival at UCLA in 2002 was a transformative event for her home department, which now has world-class coverage of Indic literature and culture, and especially for her true home, PIES, whose doctoral students emerge as masters of Vedic language and Sanskrit historical grammar, as well as having had the opportunity to pursue high-level classes and independent research projects on Avestan, Old Persian, Middle Indic, and Indo-Iranian and Indo-European poetics.

Stephanie's courses on everything from elementary Sanskrit to historical syntax are characterized by the same features that make her scholarship instantly recognizable: an insistence that solutions must make sense both linguistically and philologically, great stylistic clarity, and an unceasing sense of merriment. Major themes that have occupied her in forty years of deeply original work include animals, riddles, and sex; law and rirual; morphologically baroque verbal forms; syntactic change; women and their grammar; the bright light a knowledge of Sanskrit can shine on Greek peie and tragedy; and issues of translation. Attention to all of these has culminated in her and Joel P. Bererton's three-volume masterpiece of 2014, The Rigneda: The Earliest Religious Peatry of India (Oxford University Press), the first complete rendering of the Rigneda into English in more than a century. Thanks to the unpretentious style with which Stephanie and Joel introduce and elucidate these, 1,038 very difficult hymris, what we have is more than a monument of learning that now lies open before every what we have its open before every

Indologist and Indo-Europeanist (all who have received instruction from Stephanic at her desk can picture her with other such monuments flopped around her, in a way that teaches you exactly what such books are forl); it will also be for generations the go-to reference work for students and scholars in fields from comparative literature to relieious studies.

Ås Stephanie reminded us in her Presidential address to the American Oriental Socitey in 2010 (subsequently published in the Society's journal, JAOS 131 [2011]), teats have secref lives. When it comes to early Indic texts, no one is better at revealing the mysteries: Stephanie's readings often involve a simultaneous display of phonological, morphological, syntactic, and contextual analysis that is virtuosic and yet presented in a down-to-earth manner. If, in class, she wishes to impress on you a particular point, she pauses, looks at you from under her eyebrows, and communicates it as if she were letting you in on a slightly scandalous secret. She has a similar look when forced to listen to ideas that she thinks are just plain silly, and if you are over her student—in which case she has all the time in the world for you and will patiently help you locate and understand what is good in what you have done—then you work hard to avoid being the object of this ironic saze.

It is not only her students who benefit from Stephanie's critical acumen. As Associate Editor for South and Southeast Asia and (since 2010) Editor-in-Chief of fAOS, she has wielded her ted pen with modern efficiency as well as timeless skill. We would also like to highlight her seventy-five penetrating book reviews, whose vehicles are Indu-Iranian Journal, International Journal of Hindu Studies, and Kratples, to name a few besides JAOS: the reviews unfailingly identify the strengths and weaknesses of the works under discussion, suggest directions for future research, and evince her trademark sense of humor.

No paragraphs about Stephanie could leave out her legendary hospitality. One of her books has this noun in its title, but food, drink, and cheerful company are for her far more than academic matters. The annual "Dead of Winter" parry at 10 Locke Street in Cambridge, MA has given way to the bash that follows the Indo-European conference each fall in Los Angeles, a part of the world where "dead of winter" has no meaning; the great black cat Fergus has given way to such other great cats as Puduhepa; but the atmosphere chez Stephanie remains as it ever was—joyous, feline, carnivalesque.

Two contributors passed away last year: Lisi Oliver, whose laugh-out-loud funny ribute to Stephanie captures the sense of play in her brilliant, synoptic readings, and Martin West, whose opening paragraph speaks of Stephanie as "the warm-hearted recipient of this volume." Among those who for one reason or another could neer contribute, we wish to mention two: Anna Morpurgo Davies, who very much regreted that the illness that would fell her in 2012 prevented her from producing a paper, and Calvert Watkins, Stephanie's belowed husband, who (we are so glad to be able to say) learned that a festschrift was in the works shortly before his death in 2013.

This crown is for Stephanie, with great respect and great love.

The Editors, February 2016

Bibliography of Stephanie W. Jamison

I. Books

- Function and Form in the -áya-formations of the Rig Veda and Atharva Veda. Göttingen: Vandenhoeck & Ruprecht, 1984.
- The Ravenous Hyenas and the Wounded Sun: Myth and Ritual in Ancient India. Ithaca: Cornell University Press, 1991.
- Sacrificed Wife / Sacrificer's Wife: Women, Ritual, and Hospitality in Ancient India. New York: Oxford University Press, 1996.
- The Rig Veda between Two Worlds: Le Rgveda entre deux mondes. Quatre conférences au Collège de France en mai 2004. Paris: Collège de France, 2007.
- (with Joel P. Brereton) The Rigueda: The Earliest Religious Poetry of India. New York: Oxford University Press, 2014.

II. Edited volumes

- (with Joel Brereton) Sense and Syntax in Vedic, Panels of the VIIth World Sanskrit Conference. Vol. 4. Leiden: Brill, 1991.
- (with Joel Brereton) Festschrift for Stanley Insler. Special number of the Journal of the American Oriental Society, 122.2 (2002):211–345.
- (with H. Craig Melchert and Brent Vine) Proceedings of the 20th UCLA Indo-European Conference. Bremen: Hempen, 2009.
- (with H. Craig Melchert and Brent Vine) Proceedings of the 21st UCLA Indo-European Conference. Bremen: Hempen, 2010.
- (with H. Craig Melchert and Brent Vine) Proceedings of the z2nd UCIA Indo-European Conference. Bremen: Hempen, 2011.
- (with H. Craig Melchert and Brent Vine) Proceedings of the 23rd UCLA Indo-European Conference. Bremen: Hempen, 2012.
- (with H. Craig Melchert and Brent Vine) Proceedings of the 24th UCLA Indo-European Conference. Bremen: Hempen, 2013.
- (with H. Craig Melchert and Brent Vine) Proceedings of the 25th UCLA Indo-European Conference. Bremen: Hempen, 2014.
- (with H. Craig Melchert and Brent Vine) Proceedings of the 26th UCLA Indo-European Conference. Bremen: Hempen. In press.

III. Articles

- "Functional ambiguity and syntactic change: The Sanskrit accusative." In Diachronic Syntax: Proceedings of the Parasession of the Chicago Linguistic Society (1976), 226-24.
- "Voice fluctuation in the Rig Veda: Medial 3rd plural -anta in active paradigms." Indo-Iranian Journal 21 (1979):146–69.
- 17. "The case of the agent in Indo-European." Die Sprache 15 (1979):129-43.
- "Remarks on the expression of agency with the passive in Vedic and Indo-European." Zeitschrift für veraleichende Sprachforschung 93 (1979):196–219.
- "A Vedic sexual pun: ástobhayat, anubhartri, and RV I.88.6." Acta Orientalia 42 (1081[1082]):55-62.
- "A Vedic-Avestan correspondence: RV ánadant-, Gathic nadant-." Journal of the American Oriental Society 101 (1981):351-4-.
- "'Sleep' in Vedic and Indo-European." Zeitschrift für vergleichende Sprachforschung 96 (1982):6–16.
- 22. "Case disharmony in RVic similes." Indo-Iranian Journal 24 (1982):251-71.
- "Two problems in the inflection of the Vedic intensive." Münchener Studien zur Spruchvissenschaft 42 (1983):41–73.
- "The Vedic passive optative and its functional equivalents: A study in the syntax
 of the gerundive." Journal of the American Oriental Society 104 (1984):609–20.
- "Brāhmaṇa syllable counting, Vedic tvác- 'skin', and a Sanskrit expression for the canonical creature." Indo-Iranian Journal 29 (1986):161–81.
- "Mantra glosses in the Satapatha Brāhmana: More light on the development of the Vedic verbal system." In Fatschrift for Henry Homigswald: On the Ocasion of His Seventieth Birthday, ed. George Cardona and Norman H. Zide, 169–75. Tübingen: Nart, 1687.
- "Linguistic and philological remarks on some Vedic body parts." In Studies in Memory of Warren Congill (1920-1985), ed. Calvert Watkins, 66-91. Berlin: de Gruyter, 1987.
- "The quantity of the outcome of the vocalized laryngeal in Indic." In Die Laryngaltheorie, ed. Alfred Bammesberger, 213–26. Heidelberg: Winter, 1988.
- "Väyav indrus ca revisited." Münchener Studien zur Sprachwissenschaft 49 (1988): 13–59.
- "The tense of the predicated past participle in Vedic and beyond." Indo-Iranian Journal 33 (1990):1–19.
- "The syntax of direct speech in Vedic." In Sense and Syntax in Vedic: Panels of the VIIth World Sanskrit Conference, vol. 4, ed. Joel P. Brereton and Stephanie W.

- Jamison, 40–57, 62–5. Leiden: Brill, 1991. [Also in Studies in Sanskrit Syntax, ed. Hans Henrich Hock, 95–112. Delhi: Motilal Banarsidass, 1991.]
- "A cart, an ox, and the perfect participle in Vedic." Münchener Studien zur Sprachwissenschuft 52 (1991):77-100.
- "Natural history notes on the Rigvedic 'Frog' hymn." Annals of the Bhandarkar Oriental Research Institute 72-3 (1991-2):137-44.
- "Vedic 'sá figé': An inherited sentence connective?" Historische Sprachforschung 105 (1992):213–39.
- "Determining the synchronic syntax of a dead language." In Historical Linguistics 1989, ed. Henk Aertsen and Robert J. Jeffers, 211–20. Amsterdam: Beniamins, 1993.
- "Thornless paths and others: Vedic ánrksara-: Greek ὁθείου." In Indegermanica et Indica: Festschrift für Helmut Rix zum 6: Geburstag, ed. Gerhard Meiser, 237–51. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck, 1902.
- "Draupadi on the walls of Troy: Iliad 3 from an Indic perspective." Classical Antiquity 13 (1994):5-16.
- "Vrtra et Vnrsthragna and Sur la structure du kārņa: Some intersections." Langue, style et structure dans le monde indien: Centenaire de Louis Renou, ed. Nalini Balbir and Georges-Jean Pinault, 123–42. Paris: Champion, 1996.
- "Vedic men!, Avestan maēni, and the power of thwarted exchange." Studien zur Indologie und Iranistik 20 (1996):187–203.
- "Delbrück, Vedic textual genres, and syntactic change." In Berthold Delbrück y la sintaxis indocuropea hoy, ed. Emilio Crespo and José Luis García Ramón, 239–51.
 Madrid: Ediciones de la UAM, 1997.
- "Vedic anyá- 'another, the other': Syntactic disambiguation." In Sound Law and Analogy: Papers In Honor of Robert S. P. Beekes on the Occasion of His 60th Birthday, ed. Alexander Lubotsky, 111–8. Amsterdam: Rodopi, 1997.
- "Formulaic elements in Vedic myth." In Inside the Texts / Beyond the Texts: New Approaches to the Study of the Vedas, ed. Michael Witzel, 126–38. Cambridge, MA: Harvard University Dept. of Sanskrit and Indian Studies, 1997.
- "Syntactic constraints on morphological change: The Vedic imperatives bodhi, debi, and dhehi." In Syntase des langues indo-iraniennes anciennes, ed. Eric Pirarr, 63–80. Sabadell: AUSA, 1997.
- 44. "A Gändharva marriage in the Odyssey: Nausicaa and her imaginary husband." In Studies in Honor of Jaan Pulmel, ed. Dorothy Disterheft et al., 151–60. Washington, DC: Institute for the Study of Man, 1997.
- 45. "Sanskrit pārināhya 'household goods': Semantic evolution in cultural context."

- In Festschrift for Eric Hamp, ed. Douglas Q. Adams, 139-45. Washington, DC: Institute for the Study of Man, 1997.
- "Recent work in Vedic studies." UCLA Friends and Alumni of Indo-European Studies Newsletter 7.1 (1997) September/October:19-21.
- "Rhinoceros toes, Manu V.17–18, and the development of the dharma system."
 Journal of the American Oriental Society 118 (1998):249–56.
- "Rigwedic visidialy stm, or why syntax needs poetics." In Mir Curud: Studits in Honor of Calvert Watkins, ed. Jay H. Jasanoff, H. Craig Melchert, and Lisi Oliver, 291–300. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck, 1908.
- "Penelope and the pigs: Indic perspectives on the Odyssey." Classical Antiquity 18 (2000):227-72.
- "Once more, yet again, the Vedic type dhopium revisited: Metrical marginalia to a persistent problem." In Companitiones indopermaniae in memoriam Jochem Schindler, ed. Heiner Eichner and Hans Christian Luschützky, 165–81. Prague: Enigena, 1999.
- "The 'Classical Moment' in India: The grammar of discrimination in Kaliadas."
 In The Classical Moment: Views from Seven Literatures, ed. G. Holst-Warhaft and D. R. McCann, 37–45. Lanham: Rowman & Littlefield, 1999.
- "A Sanskrit maxim and its ritual and legal applications." In Anusantatyai: Festschrift für Johanna Narten zum 70. Geburtstag, ed. Almut Hintze and Eva Tichy, III-25. Dettelbach: Röll, 2000.
- "On translating the Rig Veda." In Proceedings of the Eleventh Annual UCIA Indo-European Conference, ed. Karlene Jones-Bley et al., 1–20. Washington, DC: Institute for the Study of Man, 2000.
- "Lurching towards ergativity: Expressions of agency in the Niya Documents."
 Bulletin of the School of Oriental and African Studies 63 (2000):64-80.
- "The Rigvedic svayanwara? Formulaic evidence." In Vidyārnavavandanam: Essays in Honour of Asko Parpola, ed. Klaus Karttunen and Petteri Koskikallio, 303–15. Helsinki: Finnish Oriental Society, 2001.
- "RVic sim and im." In Indian Linguistic Studies: Festschrift in Honor of George Cardona, ed. Madhav Deshpande and Peter E. Hook, 290–312. Delhi: Motilal Banarsidass, 2002.
- "An anagram in the Gāthās: Y. 51.4-5." Journal of the American Oriental Society 122 (2002):287-90.
- "Giver or given? Some weeddings in Kälidäsa." In Jewels of Authority: Women and Textual Tradition in Hindu India, ed. Laurie L. Patton, 69–83. Oxford: Oxford University Press, 2002.
- 59. "Vedic vrá: Evidence for the svayamvara in the Rig Veda?" In Paitimāna: Essays

- in Iranian, Indo-European, and Indian Studies in Honor of Hanns-Peter Schmidt, ed. Siamak Adhami. 19–16. Costa Mesa: Mazda, 2003.
- (with Michael Witzel). "Vedic Hinduism." In The Study of Hinduism, ed. Arvind Sharma. 65–113. Columbia, SC: University of South Carolina Press, 2003.
- "Poetry and purpose of the Rigueda: Structuring enigmas." In The Vedas: Texts, Language, and Risual, ed. Arlo Griffiths and Jan Houben, 237–49. Groningen: Forsten, 2004.
- 62. Response to Parpola, "From archaeology to a stratigraphy of "Vedic syncretism"." In *The Vedas: Texts, Language, and Risual*, ed. Arlo Griffiths and Jan Houben, 517–20. Groningen: Forsten, 2004.
- "Sanskrit." In Encyclopedia of the World's Ancient Languages, ed. Roger D. Woodard, 673–99. Cambridge, UK: Cambridge University Press, 2004.
- "Middle Indic." In Encyclopedia of the World's Ancient Languages, ed. Roger D. Woodard, 700–16. Cambridge, UK: Cambridge University Press, 2004.
- "Linguistic aspects of the persona of the Gäthä poet." In Proceedings of the Sixteenth Annual UCLA Indo-European Conference, ed. Karlene Jones-Bley et al., 123–32. Washington, DC: Institute for the Study of Man, 2005.
- "Roles for women in Vedic Srauta ritual." In Goddesses and Women in the Indic Religious Tradition, ed. Arvind Sharma, 1–17. Leiden: Brill, 2005.
- "Warren Cowgill as teacher." In The Collected Writings of Warren Congill, ed. Jared S. Klein, xli-xlii. Ann Arbor: Beech Stave, 2006.
- "Poetic 'repair' in the Rig Veda." In La langue poétique indo-européenne, ed. Georges-Jean Pinault and Daniel Petit, 133-40. Paris: Peeters, 2006.
- "Women 'between the empires' and 'between the lines'." In Between the Empires: Society in India 300 BCE to 400 CE, ed. Patrick Olivelle, 191–214. New York: Oxford University Press, 2006.
- "Vedic Ulana Kāspa and Avestan Kausu Usan: On the morphology of the names." In Verba Docenti: Studies In Historical and Indo-European Linguistics Presented to Jay H. Jasanoff by Students, Colleagues, and Friends, ed. Alan J. Nussbaum, 159-68. Ann Arbor: Beech Stave, 2007.
- "The function of animals in the Rig Veda, RV X.28, and the origins of story literature in India." In Penser, dire et représenter l'animal dans le monde indien, ed. Nalini Balbir and Georges-Jean Pinault, 197–218. Paris: Champion, 2008.
- "Women's language in the Rig Veda?" In Indologica: T. Ya. Elizarenkom Memorial Volume. Vol. 1, ed. L. Kulikov and M. Rusanov, 153–65. Moscow: Russian State University for the Humanities, 2008.
- "Sociolinguistic remarks on the Indo-Iranian *-ka-suffix: A marker of colloquial register." Indo-Iranian Journal 52 (2009):311-29.

- "Poetic self-reference in the Rig Veda and the persona of Zarathustra." In Festschrift for Prods Oktor Skjervø. Bulletin of the Asia Institute 19 (2005 [2009]):67-70.
- "Where are all the optatives? Modal patterns in Vedic." In East and West: Papers in Indo-European Studies, ed. Kazuhiko Yoshida and Brent Vine, 27–45. Bremen: Hempen, 2009.
- 76. "Såre duhitár's brother, the 'placer of the sun': Another example of -e < °-as in Rigycedic phrasal sandhi." In Ex-Anatolian Luc: Anatolian and Indo-European Studies in Honor of H. Craig Melchers on the Occasion of His Sixty fifth Birthday, ed. Ronald Kim et al., 159–66. Ann Arbor: Beech Stave, 2010.</p>
- 77. "The secret lives of texts." Journal of the American Oriental Society 131 (2011):1-7.
- "A Sanskrit riddle in three movements: Rig Veda V.84." In Beyond Hatti: A Tribute to Gary Beckman, ed. Billie Jean Collins and Piotr Michalowski, 155–8.
 Atlanta: Lockwood, 2013.
- "India and the graphy o' myth." In Writing Down the Myths, ed. Joseph F. Nagy, 265-76, Turnhour: Brepols, 2013.
- "An Indo-Iranian priestly title lurking in the Rig Veda? An Indic equivalent to Avestan kampan." Fistichrift for Richard Salomon. Bulletin of the Asia Institute 23 (2009 [2013]):111-9.
- 81. "RV så hindyåm (VI.48.2) with a return visit to nåyåm and nånå." In Grummarica er Verba, Glamor and Verve: Studies in South Asiam, Historical, and Indo-European Linguistics in Honor of Hans Henrich Hock, ed. Shu-Fen Chen and Benjamin Slade, 117–21. Ann Artbor: Beech Stave, 2013.
- "The earliest evidence for the inborn debts of a brahmin: A new interpretation of Rgyeda X.135." Journal Asiatique 302 (2014):245–57.
- "Ślesa in the Rg-Veda?: Poetic effects in Rg-Veda X.29.1." International Journal of Hindu Studies 19 (2015):157-70.
- "The principle of equivalence and the interiorization of ritual: The 'end' of ritual?" In Philosophy and the End of Sucrifice: Disorgaging Ritual in Anxieux India, Greece, and Beyond, ed. Peter Jackson and Anna-Pya Syödin, 15–31. Sheffield: Equipox, 2015.

IV. Articles (forthcoming)

- 85. "Of animals and (wo)men: Traditional philology and new paradigms for studying the past." To appear in the proceedings of the 12th World Sanskrit Conference. Helsinki, Finland, July 2003.
- 86. "'Sacrificer's wife' in the Rig Veda: Ritual innovation?" To appear in the proceedings of the 13th World Sanskrit Conference, Edinburgh, July 2006. Delhi: Morilal Banarsidass.
- 87. "The 'brahman's wife' and the ritual patni." To appear in the proceedings of the

- 4th International Vedic Conference, Austin TX, May 2007. London: Anthem Press.
- "Vedic India: Thinking and doing." To appear in Sixty Years After: Revisiting
 "The Intellectual Adventure of Ancient Man." Proceedings of the conference of
 same name, Brown University, March 2008, ed. Kurt Raaflaub and Francesca
 Rochberg.
- "Another sacrificed wife: Euripides' Alcestis viewed from India." To appear in the proceedings of the Yale Conference on Greek, Latin, and Indo-European Poetry, April 2009, ed. Jay Fisher.
- 90. "The Vedic perfect subjunctive and the value of modal forms to tense/aspect stems." To appear in a festschrift.

V. Reviews

- Dumézil, Georges. 1988. The Destiny of a King. Tr. Alf Hiltebeitel. Chicago: University of Chicago Press. Iranian Studies 22 (1989 [1990]):93-5.
- Tikkanen, Bertil. 1987. The Sanskrit Gerund: A Synchronic, Diachronic, and Typological Analysis. Helsinki: Finnish Oriental Society. Journal of the American
 Oriental Society 109 (1989):459–61.
- Gotö, Toshifumi. 1987. Die "I. Pr\u00e4uensklasse" im Vedischen: Untersuchungen der vollstufigen thematischen Wurzelpr\u00e4sentia. Vienna: Verlag der Österreichischen Akademie der Wissenschaften. Kratylos 34 (1989):59-65.
- Banti, Giorgio. 1984. On the Morphology of Vedic Gender-distinguishing Pronominals. Rome: Dipartimento di studi glottoantropologici università "La Sapienza." Indo-Iranian Journal 32 (1989):290–4.
- Hettrich, Heinrich. 1988. Untersuchungen zur Hypotaxe im Vedischen. Berlin: de Gruyter. Journal of the American Oriental Society 110 (1990):535-7.
- Lubotsky, A. M. 1989. The System of Nominal Accentuation in Sansbrit and Proto-Indo-European. Leiden: Brill. Journal of the American Oriental Society 111 (1991): 419-21.
- Beckes, R. S. P. 1988. A Grammar of Gatha-Avestan. Leiden: Brill. Orientalische Literaturzeitung 86 (1991):74–6.
- Kellens, Jean and Eric Pirart. 1988. Les textes vieil-avestiques. Vol. 1, Introduction, texte et traduction. Wiesbaden: Reichert. Indo-franian Journal 36 (1993):244-41.
- Aguilar i Matas, Enric. 1991. Repedic Society. Leiden: Brill. Journal of the American Oriental Society 133 (1993):311-4.
- Schmitt, R\u00e4diger. 1991. The Bisitum Inscriptions of Darius the Great: Old Persian Text. London: School of Oriental and African Studies. Indo-Ivanian Journal 37 (1994):168-71.

- 101. Durkin, Desmond.1991. Konditionalsätze im Satapathabrähmana. Wiesbaden: Harrassowitz. Journal of the American Oriental Society 114 (1994):118-9.
- 102. Mittwede, Martin. 1989. Texthritische Bemerkungen zur K\u00e4thaka-Samhit\u00e4. Stuttgart: Steiner. Journal of the American Oriental Society 114 (1994):208.
- 103. Heesterman, Jan C. 1993. The Broken World of Sacrifice: An Essay in Ancient Indian Ritual. Chicago: University of Chicago Press. Method and Theory in the Study of Religion 8 (1996):103-8.
- 104. Houben, Jan E. M. (ed.). 1996. Ideology and Status of Sanskrit: Contributions to the History of the Sanskrit Language. Leiden: Brill. International Journal of Hindu Studies 1 (1997):428–9.
- 105. Bansat-Boudon, Lyne. 1992. Poétique du théâtre indien. Letsures du Nătyaśāstra. Paris: École française d'Extrême-Orient. Indo-Iranian Journal 40 (1997):387–92.
- Schaefer, Christiane. 1994. Das Intensivum im Vedischen. Göttingen: Vandenhoeck & Ruprecht. Kratylos 42 (1997):50–5.
- 107. Stautzebach, Ralf. 1994, Pärišiksä und Sarvasammatašiksä. Rechslautlehren der Taitsiriya-Säähä. Stuttgart: Steiner. Journal of the American Oriental Society 117 (1997):369-71.
- Volkart, Marianne. 1994. Zu Brugmanns Gesetz im Alsindischen. Bern: Universität Bern, Institut für Sprachwissenschaft. Diaebronica 14 (1997):179–82.
- 109. Fosse, Lars Martin. 1997. The Crux of Chronology in Saushrit Literature: Statistic and Indology. A Study of Method. Oslo: Scandinavian University Press. Indo-Iranian Journal 42 (1999):249–52.
- Krisch, Thomas. 1906. Zur Genese und Funktion der altindischen Perfekta mit langem Reduplikationsvokal. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck. Kratvlos 44. (1900):30–62.
- Lubotsky, Alexander. 1997. Rgyedic Word Concordance. New Haven: American Oriental Society. Journal of the American Oriental Society 119 (1999):348–9.
- Pirart, Éric. 1995. Les N\u00e4ssatya I. Geneva: Droz. Journal of the American Oriental Society 119 (1990):350-1.
- Malamoud, Charles. 1996. Cooking the World: Ritual and Thought in Ancient India. Translated by David White. Delhi: Oxford University Press. History of Religious 39 (2020):384-5.
- 114. Steiner, Katin. 1997. Anargharāghava: Das Schauspiel vom kostbaren Raghuspross. Einführung und Übersetzung. Wiesbaden: Harrassowitz. Indo-Iranian Journal 43 (2000):173-7.
- III. Oberlies, Thomas. 1998. Die Religion des Repreda. Part 1, Das religiöse System des Repreda. Vienna: Gerold. History of Religions 40 (2001):387–90.

- Oberlies, Thomas. 1999. Die Religion des Rgweda. Part 2, Kompositionsanalyse der Soma-Hymnen des Rgweda. Vicana: Gerold. History of Religions 41 (2001):180–3.
- Peterson, John M. 1998. Grammatical Relations in Pāli and the Emergence of Ergativity in Indo-Aryan. Munich: LINCOM Europa. Kratylos 47 (2002):86–90.
- Kümmel, Martin Joachim. 2000. Das Perfekt im Indoiranischen. Wiesbaden: Reichert. Indo-Iranian Journal 45 (2002):350-3.
- Pirart, Eric. 2001. Les Năsatya. Vol. 2. Geneva: Droz. Indo-Iranian Journal 45 (2002):347–50.
- Jackmuth, Martina. 2002. Die Bildersprache Kälidäsas im Kumärasambhava. Wiesbaden: Harrassowitz. Journal of the American Oriental Society 124 (2004):389–90.
- Oberlies, Thomas. 2003. A Grammar of Epic Sanskrit. Berlin: de Gruyter. Kratylos 50 (2005):79-84.
- Bryant, Edward F., and Laurie L. Patton (eds.). 2005. The Indo-Aryan Controversy. London: Routledge. Journal of Indo-European Studies 34 (2006):255-61.
- Bansat-Boudon, Lync (ed.). 2006. Théâtre de l'Inde ancienne. Paris: Gallimard. Journal of the American Oriental Society 127 (2007):517-9.
- 124. Woodard, Roger. 2006. Indo-European Sucred Space: Vedic and Roman Cult. Urbana: University of Illinois Press. Journal of the American Oriental Society 127 (2007):364-5.
- 125. Tichy, Eva. 2006. Der Konjunktiv und seine Nachharbategorien: Studien zum indegermanischen Verbum, augehend von der älteren vedischen Prosa. Bremen: Hempen. UCIA Indo-European Studies Bulletin II (2007):4—7.
- Heenen, François. 2006. Le désidératif en védique. Amsterdam: Rodopi. Journal of the American Oriental Society 128 (2008):142-4.
- Baum, Daniel. 2006. The Imperative in the Rigreda. Utrecht: LOT. Kratylos 53 (2008):91–4.
- Hintze, Almut. 2007. A Zoroastrian Liturgy: The Worship in Seven Chapters (Tasna 35-44). Wiesbaden: Harrassowitz. Journal of the American Oriental Society 129 (2000):373-4.
- 129. Ludvik, Catherine. Sarasvatī: Riverine Goddess of Knowledge. From the Manuscript-wielding Vīnā-player to the Weapon-wielding Defender of the Dharma. Leiden: Brill. Journal of the American Oriental Society 129 (2009):353-5.
- Sunderman, Werner et al. ed. 2009. Exegisti Monumenta: Fettschrift in Honouer of Nicholas Sims-Williams. Wiesbaden: Harrassowitz. Bibliothea Orientalis 67 (2010):435–8.
- Viti, Carlotta. 2007. Strategies of Subordination in Vedic. Milan: FrancoAngeli. Kratylos 55 (2010):149–52.
- 132. Franceschini, Marco. 2007. An Updated Vedic Concordance: Maurice Bloomfield's

xvii xvii

- A Vedic Concordance Enhanced with New Material Taken from Seven Vedic Texts.

 Cambridge, MA: Department of Sanskrit and Indian Studies, Harvard University. Indo-Iranian Journal 33 (2010):35-6.
- 133. David Shulman and Shalva Weil (eds.). 2008. Karmic Passages: Irnatis Scholarship on India. New Delhi: Oxford University Press; and David Shulman (ed.). 2010. Language, Ritual and Poetics in Ancient India and Irans: Studies in Honor of Shaul Migron. Jerusalem: Israeli Academy of Sciences and Humanities. Journal of the American Oriental Society 13 (2011):05-6.
- 134. Amano, Kyoko. 2009. Maitrāyani Samhitā 1-II: Übersetzung der Prosapartien mit Kommentar zur Lexik und Syntax der älteren vedischen Prosa. Bremen: Hempen. Indo-Iranian Journal 14 (2011):286–90.
- 135. Hill, Eugen. 2007. Die Aorist-Pr\u00e4sentien des Indoiranischen: Untersuchungen zur Morphologie und Syntax einer Pr\u00e4sensiklasse. Bremen: Hempen. Indo-Iranian Journal vs. (2011):280–28.
- 136. Olivelle, Patrick, Janice Leoshko, and Himanshu Prabha Ray (eds.). 2012. Reimagining Ashka: Memory and History. Delhi: Oxford University Press. Journal of the American Oriental Society 132 (2012):692–3.
- Caillat, Colette. 2011. Selected Papers. Bristol: Pali Text Society. Journal of the American Oriental Society. 133 (2013):166-7.
- Black, Brian. 2007. The Character of the Self in Ancient India: Priests, Kings, and Women in the Early Upansiads. Albany: State University of New York Press. International Journal of Hinds Studies 17 (2013):03-5.
- Dahl, Eystein. 2010. Time, Tense and Aspect in Early Vedic Grammar: Exploring Inflectional Semantics in the Rigreda. Leiden: Brill. Indo-Iranian Journal 57
 (2014):151-60.
- Zehnder, Thomas. 2011. Das periphrassische Kausativ im Vedischen. Bremen: Hempen. Indo-Iranian Journal 57 (2014):183-4.
- Köhler, Frank. 2011. Kaví im Rgreda: Dichtung, Ritual und Schöpfung im frühredischen Denken. Aachen: Shaker. Indo-Iranian Journal 57 (2014):385–8.
- Kulikov, Leonid. 2012. The Vedic -ya-presents: Passives and Intransitivity in Old Indo-Arvan. Amsterdam: Rodopi. Indo-Iranian Journal 58 (2015):92-5.

VI. Brief reviews

- 143. Alsdorf, Ludwig. 2001. Kleine Schriften. Ed. Albrecht Wezler. 2nd ed. 1998. Nachtragiband. Stuttgart: Steiner. Journal of the American Oriental Society 123 (2003):466.
- 144. Zvelebil, K.V. 2001. Nilgiri Area Studies. Prague: Karolinum. Journal of the American Oriental Society 123 (2003):467.
- 145. von Hinüber, Oskar. 2001. Das ältere Mittelindisch im Überblick. 2nd ed. Vi-

- enna: Verlag der Österreichischen Akademie der Wissenschaften. Journal of the American Oriental Society 123 (2003):467.
- Tachikawa, M., S. Bahulkar, and M. Kolhatkar. 2001. Indian Fire Ritual. Delhi: Motilal Banarsidass. Journal of the American Oriental Society 123 (2003):707.
- Gray, Leslie. 2000. A Concordance of Buddhist Birth Stories. 3rd ed. Oxford: Pali Text Society. Journal of the American Oriental Society 123 (2003):708.
- 148. Pal, Pratapaditya, and Betty Seid (eds.). 2002. The Holy Cow and Other Animals: A Selection of Indian Paintings from the Are Institute of Chicago. Chicago: The Art Institute of Chicago. Journal of the American Oriental Society 123 (2003):708.
- 149. Saindon, Marcelle. 2000. Cérémonies funéraires et possfiunéraires en Inde. Quebec: Presses de l'Université Laval. Journal of the American Oriental Society 123 (2003):708.
- Shulman, D., and G. G. Stroumsa. 2002. Self and Self-Transformation in the History of Religions. New York: Oxford University Press. Journal of the American Oriental Society 133 (2003):709.
- 151. Carri, Schastian J. 2000. Gavejanam, or On the Track of the Cow and in Search of the Mysterious Word and in Search of the Hidden Light. Wiesbaden: Harrassowitz. Journal of the American Oriental Society 123 (2020):700.
- Windisch, Ernst. 2001. Kleine Schriften. Stuttgart: Steiner. Journal of the American Oriental Society 121 (2001):927-8.
- Sharma, Arvind. 2002. Classical Hindu Thought. 2000. Modern Hindu Thought. New Delhi: Oxford University Press. Journal of the American Oriental Society 123 (2001):027.
- Schneider, Ulrich. 2002. Opera Minora. Wiesbaden: Harrassowitz. Journal of the American Oriental Society 124 (2004):206
- 155. Bolléc, Willem. 2006. Gone to the Dogs in Ancient India. Munich: Verlag der Bayerischen Akademie der Wissenschaften. Journal of the American Oriental Sotiety 127 (2007):104-5.
- Broadbeck, Simon, and Brian Black. 2007. Gender and Narrative in the Mahabhārata. London: Routledge. Journal of the American Oriental Society 128 (2008): 394.
- 157. Haas, Cornelia. 2004. Wie man den Veda lesen kunn: Gandhurva und die "Zwi-schenzuständ" im Ryweda und im Kommentar des Suyana Wege der Interpretation eines archaischen Textes. Göttingen: Vandenhoeck & Ruprecht. Journal of the American Oriental Society 128 (2008):394—5.
- 158. Olivelle, Patrick. 2005. Language, Texts, and Society: Explorations in Ancient Indian Culture and Religion. Florence: Firenze University Press. Olivelle, Patrick. 2006. Asseties and Bradmins: Studies in Ideologies and Institutions. Florence: Firenze University Press. Journal of the American Oriental Society 128 (2008):305–6.

- 159. Olivelle, Patrick 2005. Dharmasastra Parallels: Containing the Dharmasastras of Āpastambha, Gautama, Baudhāyana, and Vasistha. Delhi. Motilal Banarsidass. Journal of the American Oriental Society 128 (2008):396–7.
- Norman, K. R. 2007. Collected Papers. Vol. 8. Lancaster: Pali Text Society. Journal of the American Oriental Society 128 (2008):396-7.
- 161. Ronzitti, Rosa. 2006. I derivati in *-mo-della lingua vedica (Samhitā e Brāh-mana). Perugia: Guerra. Journal of the American Oriental Society 128 (2008):397.
- 162. Remmer, Ulla. 2006. Frauennamen im Regreda und im Avesta: Studien 24tr Onomastik des ältesten Induchen und Iranischen. Vienna: Österreichische Akademie der Wissenschaften. Journal of the American Oriental Society 128 (2008):397–8.
- 163. Pirart, Eric, and Xavier Tremblay (eds.). 2009. Zarathustra entre PInde et PIran: Essaés indo-vamenus et indo-européennes offeres à Jean Kellens à Pocassion de son 65e anniversaire. Wiesbaden: Reichert. Journal of the American Oriental Society 130 (2010):139.
- 164. Shayegan, M. Rahim (ed.). "Persia beyond the Oxus." In Bulletin of the Asia Institute 21 (2007 [2012]):147–96. Journal of the American Oriental Society 133 (2013):411.
- 165. Rotaru, Julieta (ed.). 2010. Lucrările Simpozionului Internațional Cartea, România, Europa. Ediția a II-1, 20-24 septembrie 2009; Hocben, Jan E. M., and Julieta Rotae (eds.). 2011. Travauce de Sympozium International Le Livre, la Roumanie, FEurope, Troisième idition, 20-24 septembre 2010. Vol. 3: Etudes euro- et afroasiatques; III A: La Veda-Vedânga et l'Avesta entre oralité et écriture. Bucharest: Éditeur Bibliothèque Bucarest. Journal of the American Oriental Society 133 (2013) 411-2.

VII. Dictionary entries

- 166. Twenty entries on Vedic religion. In HarperCollus Distinuary of Religion (South Asian and Hinduism section), ed. Alf Hiltebeitel. San Francisco: Harper San Francisco, 1995.
- 167. "Maurice Bloomfield" (111–12), "E. Washburn Hopkins" (428), "A. V. Williams Jackson" (468), "Charles Rockwell Lanman" (548–9). In Lection Grammaticorum, ed. Harro Stammerjohann et al. Tübingen: Niemeyer, 1996.
- 168. "Vedic Law: 1500–800 B.C." In The Oxford International Encyclopedia of Legal History, ed. Stanley N. Katz, New York: Oxford University Press, 2009.

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The Role of Vassal Treaties in the Maintenance of the Hittite Empire'

GARY BECKMAN

At its zenith in the late fourteenth century BCE the Hittite state, known to scholars as Hatti,1 had expanded from its core within the bend of the Kizil Irmak (Red River) in central Anatolia as far south as Damascus in Syria. For the most part, this empire had grown not through annexation but through agglomeration: direct rule of a newly subjugated region was usually returned to a member of the defeated local dynasty. who would henceforth govern as a sworn vassal of the Hittite Great King. However, an exception to this practice was made in the case of Carchemish, a city located at the most important crossing of the Euphrates River in northern Syria. Here the founder of the Hittite imperium. Suppiluliuma L2 had installed a cadet line of his own royal family, whose members would serve loyally as viceroys of the Great King/Emperor (T/Labarna) in his southern territories until the collapse of the entire system at the end of the Bronze Age, after which, it seems, this lineage for a time claimed the imperial title for themselves 3

The establishment of a trustworthy deputy in the region was but one of the measures adopted by the Hittite crown to overcome the difficulties posed to its administration by the great distances that stretched between the capital Hattuša (modern Boğazkoy/Boğazkale, about a three-hour drive east of Ankara) and the Syrian dependencies. The problem was indeed formidable: even a swift messenger would need several weeks to make the journey to Syria, and the deployment of a slow-moving military force from the motherland required months. Furthermore, heavy snows normally blocked the mountain passes in Anatolia from late autumn through early spring.

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[&]quot;It is my great pleasure to contribute this essay to a volume in honor of my good friend Stephanic Jamison, who has been a colleague since we two formed an "odd couple" as the sole students in a seminar on Indo-European phonology and morphology taught by the late lamented Warren Cowgill at Yale University IN 1971 2.

^{&#}x27;The natives seemingly referred to their polity as "(the Land of) Hattusa"; see Kammenhaber 1969 125 and Klengel 1999:192 ft. 244.

²For a narrative of the conquests of this king, see Bryce 2005 154-89, and cf. now Richter 2008 for the new perspective on these events provided by the texts recently excavated at Qatna. Ĭ

See Hawkins 1988.

The king of Carchemist certainly had troops at his command, ⁴ but these would have been drawn largely from the regional vassal polities themselves. The Hittite garrisons posted in the chief cities of certain dependencies were little more than body-guards for the local kings, who risked umpopularity with their subjects for doing the bidding of Hatti and collecting her tribute. Thus a Syrian ruler contemplating throwing off the Hittite yoke could reckon with a significant breathing space before he would face a realistic threat of significant physical coercion from his betrayed overlord.

Yet we know of only one major—and to be sure unsuccessful—rebellion against Hittite domination in Syna in this period, and this uprising took place very soon after the establishment of the empire, upon the accession to the throne of Hatti of an untested youth, Mursilii II.³ How did the Hittites manage to control their vassals so effectively? First and foremost they accomplished this through a system of diplomacy based upon relations codified by treaty. The regulation of the interaction of states by treaty was not particularly unusual in the ancient Near East. A couple of treaty documents are known already for the later third millennium: one drawn up between the city-state of Ebla and a Syrian neighbor in the twenty-fourth century and another concluded by Naram-Sin of Akkad with a ruler of Elam during the following century.⁶

Several texts of this genre dating to the early second millennium have been recovered from Mesopotamian and Syrian sites. The latest artested ancient Near Eastern treaties are those imposed by Assyrian kings on their Syrian and Iranian vassals in the eighth and seventh centuries. But it was the Hittites who composed well over half of the cunciform treaties known to date. 7 We currently have the texts of approximately forty such documents from Harti, and many more treaties whose texts have not been recovered are mentioned in Hittite records of other types, such as royal annals and international correspondence. Most of Hartis treaties were composed in the contemporary diplomatic language of Akkadian, although the native Hittite tongue was also sometimes employed, particularly in agreements with vassals located in western Anatolia, where Knowledge of Akkadian was probably absent.*

In both languages these documents were designated by a pair of terms which may be translated as 'binding and oaths' (Hitt. illpiul and lengail, Akk. rikilus or riksu and mamitu). This expression refers to the two most important elements of these records: the stipulations ('binding') and the oaths by which the contracting parties invoked the gods as witnesses and guarantors of these provisions.

Under Murisili II, the Great King whose diplomatic activities are best attested, treaties were issued for Arzawa and several other states in western Anatolia, as well as for Kinza (Kades), Amurru, and Ugari in Syria and probably for other subject areas as well. The vassal treaty was composed by the chancellery of the Hittire monarch and presented to the subordinate, who was obliged to swear in the presence of various deities that he would observe its provisions. Thus the text was simultaneously the 'binding' of the Great King and the 'oaths' of the vassal. One treaty includes the explicit statement: "These provisions are by no means reciprocal. They issue from Hatti." Therefore it is not surprising that in most instances the vassal alone—and not the overlord—swore the oaths. "

The text of the treaty was engraved in cuneiform upon a tablet of metal (sometimes of silver but more often of bronze) and delivered to the junior partner. As is the case with so many metal objects from antiquity, the great majority of these tablets have disappeared. In fact, with a single exception, "modern scholars must be content with ancient clay "file copies" from the diplomatic archives. Most of these documents follow a similar partern: "

Preamble: Here we find the name, titles, and genealogy of the Hittite Great King.
 The vassal is not yet mentioned.

2. Historical Prologue: This section sets forth the previous course of relations between Hatti and the vassal state, and in particular between the individual Hittite king and the subordinate in question. Here it is demonstrated just why the latter should be loyal to Hatti: either because he had been favored by the Great King—receiving, say, military assistance—or because the Great King had not meted out the severe punishment the vassal had richly deserved. For example, note this excerpt from the prologue to the treaty of Muršili II with Kupanta-Kurunta of the land of Mira in western Anatolia: 'Man when your father Mağbuliu'us offended against My Majestry, were not you, Kupanta-Kurunta, a son to Mağbuliuwa? Although you were in no way an offender, (could you not have been punished?) I did not take the household of your father or the land away from you. I did not make someone else lord. I gave the

^{*}For example, Sarri-Kašuh of Carchemish led forces from Syria in support of his brother Muršili II in confronting a revolt in Anatolisa during the latter's third regnal year. See KUB 14-15 11 7-10 (Laroche 1971: No. 61). ed Gostze 1931-28.

The great rebellion and its suppression are described in the "Ten-Year Annals of Muršili II" (Laroche 197) No. 611), transacted by Beal (2000).

⁶On the treaty tradition in the cuneiform world, see Beckman 2006.

⁹The better preserved of these texts are translated in Beckman 1999. Less satisfactory renderings can also be found in Kitchen and Lawrence 2012, on which see Beckman 2014.

In the Hittite-language letter sent from Arzawa and found in the diplomatic archive of the planaolis Amenophis III and Amenophis IV/Abhenaten at Tell 4-Amana, the Anatolian sorbie matrices his Egyptian collegate "The tablets which they will bring, always write in Hittite" (EA 32:34-5). See Elsawkins 2009:77.

^{*}Treaty between Muwattali II and Alakšandu of Wiluša (the Troad) (Laroche 1971: No. 76), \$16, translated by Beckman (1999:91)

⁵⁰ For a different view, see Altman 2003, but in any case, Christiansen (2012 524–7) demonstrates that the very involvement of the gods in the procedure obliges the Hittite long as the instigator of the oath to keep up has side of the aerecement.

[&]quot;Published in Otton 1088

[&]quot;Thus schema was recognized already by Korolec (1931). Von Schuler (1965) considered a number of textsy documents not be alrearn its structure (Sinder/Bown), but is exems that the strong similarity or openitarion orienteed by the texts considered by Korolec is due penually to their having been composed by a handful of archive love or a relatively short penual perhaps only one or two generations (reggins of Mall and Muwartals IT). Documents from before and affer this time duplay a good deal of formal variation from Korolec's "template."

household of your father and the land back to you, and I installed you in power in the land. And as I, My Majesty, have not in the past mistreated you in any way, in the future, Kupanta-Kurunta, [protect] me, My Majesty, as overlord.²¹³

3. Powssons. These stipulations of course vary greatly from text to text, but the primary duties imposed upon a vassal are the payment of tribute (Hirt. argumannu, Akk. mandatus) in silver or other precious metals, foodsruffs, manufactured goods, etc. (interestingly, payments are to be made not only to the Great King and Great Queen but also to various high officials of the Hirtite state and to the most important detines of the empire); the providing of military assistance when required, both in connection with imperial campaigns in the vassal's neighborhood and in the extreme case when the Hirtite ruler is himself faced with internal strife; the renouncing of all independent contact with foreign powers; the extradition of figuitives who had fled central Hatti, simple peasants as well as disgruntled members of the ruling class; and the guarantee of the succession of the Great King's designated heir to the Hittie throne.

Furthermore, vassals are forbidden to engage in warfare among themselves but rather are required to present their differences for arbitration to the King of Carchemish or, if necessary, to the Great King of Ḥatti himself. Finally, a number of documents demand that the vassal ruler make a yearly visit to the Hittite court, where he will present his homage and tribute to the Great King in person.

a. Deposition: The metal treaty tablet is to be placed in the temple of the chief deity of the vassal, where it will be under the literal oversight of the gods. Its contents are to be recited to the subordinate at regular intervals. For instance, we read in the treaty of Muwattalli II with Alakšandu of Wiluša: "Furthermore, this tablet that I have made for you, Alakšandu, shall be read out before you three times yearly, and you, Alakšandu, shall (thus) be familiar with it."¹⁶⁴

5. List of Droine Witnesse: The deities of both partners are summoned to act as witnesses to the provisions and the oaths. Thus the gods of the subject people are also given the honor and responsibility of overseeing adherence to the agreement. The extensive lists of deities in Hittite treaties are of course very useful to scholars in the reconstruction of Hittite rehgious history.¹⁵

6. Curus and Blatings:⁶ Here the vassal recites various self-imprecations before the divine guarantors of the treaty while the Great King pronounces a number of blessings upon his underling, conditional of course upon the latter observing his obligations. A particularly vivid example may be quoted from the agreement between Suppiluliuma I and Sartiwaza of Mitannii: "May (the gods) stand and listen and be untesses to these words of the treaty. If you, Sattiwaza, and you Hurrians do not observe the words of this treaty, the gods, lords of the oath, shall destroy you [and] you Hurrians, together with your land, your wives, and your possessions. They will draw you out like malt from its hust. As one does not get a plant from stony ground(?)—if you, Satriwaza, break the treaty—so you, together with any other wife whom you might take,? and you Hurrians, together with your wives, your sons, and your land, shall thus have no progeny. And these gods, who are lords of the oath, shall allot to you poverty and destitution. And you, Satriwaza—they shall overthrow your thront=""">thront=""" and the program of the pro

Or consider this passage from the treaty concluded by Murshi II with Tuppi-Telliup of Amurru: "All the words of the treaty and the oath [that] are insenbed on this tablet—if Tuppi-Telliup [does not observe these words] of the treaty and of the oath, then these oath gods shall destroy Tuppi-Telliup, [together with his person], has [wife], his son, his grandsons, his household, his ciry, his land, and together with his possessions. But if Tuppi-Telliup [observes] these [words of the treaty and of the oath] that are inscribed on this tablet, [then] these oath gods [shall protect] Tuppi-Telliup, rogether with his person, his wife, his son, his grandsons, [his ciry, his land], his household, [and together with his possessions]."

These diplomatic instruments, with their most explicit threats of divine retribution in case of violation, constituted the ideological adhesive that held together the Hittite empire. The oaths they contain are the active element in this bonding, for unlike the gods of Egypt, who in the view of their worshipers enjoyed world dominion, Hittite delities entered into the affairs of foreign lands only insofar as they enforced the imprecations that they had guaranteed. That the Hittites considered the breaking of an oath to entail quite serious consequences is clearly shown by the interpretation of an event given in the annals of Murshii II: the king Aitakama of Kinza had joined in the general revolt against the Hittite Great King Murshii III, only to be murdered by his own son Ari-Teššup, who then reaffirmed his land's loyalty to Hatti. From this course of events the narrator draws the following conclusion: "The oath gods shall take (their revenge). The son shall kill his father, brother shall kill brother, and they shall destroy their own flesh and blood!"

I conclude with a look at further measures taken by the Great King to control his vassals. Some of these practices reached into the very heart of the family of the sub-ordinate. As was Egyptian practice in connection with their Palestinian princes, ¹⁴ the Hitties carried off children of ruling dynasts to their capital, where they were indoctrinated with loyalty to their imperial masters, served as hostages for the compliant

[&]quot;Laroche 1971: No. 68, \$11, translated by Beckman (1999:76).

^{*}Sec n. 9.

[&]quot;See Kestemont 1976.

¹⁰ On these instruments of Hittite administration, see Christiansen 2012.

[&]quot;That is, in addition to Sattiwaza's first spouse, Suppiluliuma's daughter, whom he naturally did not wish to place under the threatened curse.

¹⁶ Laroche 1971 No. 51, \$15, translated by Beckman (1999:48).

[&]quot;Laroche 1971. No 62, \$\$21-2, translated by Beckman (1999 64)

³⁰ KBo 4.4 it 10-2 (Laroche 1971: No. 61 II), edited by Goetze (1933-112-5).

²¹ See Redford 1992:198-9.

behavior of their fathers, and were immediately at hand to replace the latter in the

An even more intimate involvement of Hatti in the domestic affairs of her subordinates was the institution of diplomatic marriage. ²⁸ Among Syrian vassals, the rulers of Mitanni, Amurru, and Ugarit all received daughters of the Hirtite Great King as wives. (Here we note a contrast with Egyptian practice, for the pharaoh was most unwilling to send a daughter to marry a foreign ruler of whatever rank, deigning only to accept alen princesses into his own harem.) Since a Hittite princess invariably became the highest-ranking wife of the vassal—that is, the ruling queen—one of her male offspring would be the heir presumptive of his father. Once on the throne, a sing of such a lineage, whose family ties bound him to his overlord as well as to his compatriots, could be expected to display exemplary loyalty to the empire. Such was indeed the case with Saulgamuwa, grandson of both Hattuilii III and Bentesian of Amurru, whose personal stamp seal even identifies him as a Hitrite prince. ²⁹

In sum: ideological control in the form of divine sanctions and the indoctrination of junior members of the families of vassal kings, the infiltration of those famities themselves through marriage, and the more overtly correive practice of hostagetaking, combined with the minimal policing powers of the King of Carchemish, served to maintain Hatti's grip on northern Syria for almost 200 years. Although these measures were rather simple, they were both systematic and adequate for the conditions of the Late Bronze Age.

References

Altman, Amnon. 2003. "Who took an oath on a vassal treaty — only the vassal king or also the suzerain? The Hittute evidence." Zeitschrift für altorientalische und biblische Reichtgeschichte 9:178-84.

Beal, Richard. 2000. "The Ten Year Annals of Great King Muršili II of Hatti." In The Context of Scripture, ed. William W. Hallo and K. Lawson Younger, Jr., vol. 2, 82–90. Leiden: Brill.

Beckman, Gary. 1999. Hittite Diplomatic Texts. 2nd ed. Atlanta: Scholars Press.

— 2006. "Hittie treaties and the development of the cunciform treaty tradition." In Die deuternommistichen Geschichtwerke: Redaktions- und religiongseschichtliche Perspektiven zuer "Deuternomismus". Diskussion in Tora und Vorderen Propheten, ed. Markus Witte et al., 280–301. Berlin: Mouton de Gruyter.

— 2014. Review of Kitchen and Lawrence 2012. Bulletin of the American Schools of Oriental Research 372:222-4.

Bryce, Trevor. 2005. The Kingdom of the Hittites. 2nd ed. Oxford: Oxford University Press Christiansen, Birgit. 2012. Schicksalsbestimmende Kommunikation: Spruchliche, geselschaftliche und religiose Aspekte hethitischer Fluch-, Segens- und Eulesformeln. Wiesbaden: Harrassowitz.

Goetze, Albrecht. 1933. Die Annalen des Mursilis. Lespzig: Hinrichs.

Hawkins, J. D. 1988. "Kuzi-Tešub and the 'Great Kings' of Karkamiš." Anatolian Studies 28: 100-108

— . 2009. "The Arzawa letters in recent perspective." British Museum Studies in Ancient Egypt and Sudan 14:73-83.

Kammenhuber, Annelies. 1969. "Hethirisch, Palaisch, Luwisch und Hieroglyphenhuwisch." In Altkleinasiatische Sprachen, 119–357. Leiden: Brill.

Kestemont, Guy. 1976. "Le panthéon des instruments hittites de droit public." Orientalia 45:147-77.

Kitchen, Kenneth A., and Paul J. N. Lawrence. 2012. Treaty, Law and Covenant in the Ancient Near East. Wiesbaden: Harrassowitz.

Klengel, Horst, 1999. Geschichte des hethitischen Reiches. Leiden: Brill.

Korošec, Viktor. 1931. Hethitische Staatsverträge. Leipzig: Weicher.

Laroche, Emmanuel. 1971. Catalogue des textes hittites. Paris: Klincksieck.

Otten, Heinrich. 1988. Die Bronzetafel aus Boğazköy: Ein Staatsvertrag Tuthalijas IV. Wiesbaden: Harrassowstz.

Pintore, Franco. 1978. Il matrimonio interdinastico nel Vicino Oriente durante i secoli XV-XIII. Rome: Istituto per l'Oriente.

Redford, Donald. 1992. Egypt, Canaan, and Israel in Ancient Times. Princeton: Princeton University Press.

Richter, Thomas. 2008. "Suppiluliuma I. in Syrien: Der 'einjährige Feldzug' und seine Folgen." In Hattula Böglackoy: Das Hethiterretch im Spannungsfeld als Alten Orieuts. 6. Internationales Colloquium der Deutschen Orient-Gesellschaft, 22–24. März 2006, Würzburg, ed. Gernot Wilhelm, 173–203. Wiesbaden: Harrassowitz.

Schaeffer, Claude F.-A. 1956. Ugaritica III. Paris: Geuthner.

von Schuler, Einar. 1965. "Sonderformen hethitischer Staatsverträge." Jahrbuch für kleinasuatische Forschungen 2:445–64.

²³ See Pintore 1978 69-87

⁴⁾The seal was impressed on two tablets recovered at Ugarit, see Schaeffer 1956:30-5, figs. 38-40, 43-4.

The Births of the Gods and the Kindling of Fire in Rgveda 10.72*

TORL P. BRERETON

Lare Rgwedic poetry was marked by the composition of what have been called "speculative" or "philosophic" hymns, hymns that consider the ultimate origin of things or final divine principles. These sikkns are often puzzling, suggestive rather than discursive. And one of the most baffling of them is RV 10.72, an apparent cosmogony that ends with a description of the birth of the Ādityas, representing the gods generally, and of Mārtāṇḍa, the progenutor of humans (Hoffmann 1937:94-6). In his introduction to the hymn, Geldher (1951:3-269) remarked that it almost appears as though its poet deliberately wished to illustrate the insolubility of the problem of creation by composing a hymn comprising contradictory cosmogonic theories. Undaunted, later scholars have tried to find less anarchic interpretations. Especially noteworthy are the studies of Paul Thieme (1986) and Harry Falk (1994). Thieme saw the hymn as a debate between two speakers, one taking a mythological and theistic approach, the other drawing on a natural philosophy to describe creation. He thus reduced Geldner's many contradictory theories to just two opposing ones. Responding to both Geldher and Thieme, Falk argued that the hymn presents a single theory of creation.

In justifying his view of the internal consistency of the hymn, Falk made a compelling argument that its formal features signal its unity and the unity of its perspective. Revedie poets possessed various techniques for ordering and integrating their hymns, and the poet of 10.72 deploys an unusual number of these. First, the hymn shows ring composition in its outermost verses, that is, its last verse recalls its first (Falk 1994;19). So verse 1 concludes with the phrase ditare 1996 in a later generation¹, and the first hemistich of the last verse ends, phrayim 1996 with 1996 per person of the primordial generation. This echo of the first verse in the final one gives the hymn defined boundaries and indicates the completion and coherence of the whole composition. Second, the hymn shows rigorous concatenation, in which a verse is chained to its preceding and following verse by repetition or recollection of a phrase from those verses. The following reproduces the verses 'verbal linkages identified by Falk (1994-19):

devánam...úttare yugé devánám purvyé yugé yugé 'satah sád ajayata vuaé . . . [á]satah sád aiāvata uttanápadas uttanápado áditer dákso asayata áditir...ásansta dáksa devå [in second position] devā [in second position] vád deva ... salilé vád devā ... samudrá [-é] súryam [= ādityám] astáu putráso ádster [= ādityáh] putráso áditer putraír ádstir úpa praít . . . märtändám úba braít...mārtāndám

But beyond these two, there is a third marker of the hymn's coherence that Falk does not mention. The hymn shows what Stephanie Jamison (2004 and 2007:80-9) has called an "omphalos structure," in which the middle verse of the hymn is its climax or the key to its meaning. In 10.72, the first påda states that the hymn will declare the 'births of the gods' (derbinām ... jibnā), and in verse 5, the omphalos verse, these gods are born: 5c third dend data pājaṇanta. That is to say, the epiphany of the gods, announced as the hymn's theme at its beginning, finally occurs in its central verse. Thus, with its outer boundares defined, its verses chained, and its middle verse acting as a pivot, this hymn calls for an interpretation that reflects its tight formal unity.

The problem is how to find such an interpretation. The poet revels in unexpected twists and paradox: Aditi is born from Dakşa, but also Dakşa from Aditi (vs. 4). He reverses time, beginning by looking at the future and ending in the past (vss. 1, 9). He overlays the stages of his narrative: in verse 3 the regions of space are born after 'what exasts', but then in verse 4 the regions of space are born from the earth'. Small wonder that Geldnet surrendered to chaos! And yet the formal order of the hymn challenges us to find a corresponding interpretive order. I propose that such an order emerges by seeing behind the poet's narrative an implicit alluson to the kindling of the sacrificial fire. In this easy I will look closely at two verses from the hymn's opening to show, first, that the hymn begins with an implied reference to the fire and, second, that this reference allows us to see coherence rather than confusion.

The last of the hymn's formal markers, its omphalos structure, not only underscores its unity but also defines its theme. As we noted, the middle verse announces the births of the gods. Now when poets speak of the birth of a god, they are usually describing the deiry's appearance at the sacrifice or at the time of the sacrifice. That appearance may be the manufestation in visible form of a god such as Soma or the Sun,' but the gods may also appear not to the eyes but in a poet's mind and vision. Although he is not visible. Indra is born at the sacrifice and through the sacrifice

^{*}With much p.easure I dedicate this essay to my colleague, my collaborator, and, bear of all, my friend Stephane Jamison. It was written in the spirit of her work on the literary techniques of the Rgwedie poets, work that constructs one of the signal advances in contemporary Rgwedie scholanhip

[&]quot;In RV 9.9, for example, the burth of the god Sonsu as also the birth of the Sun, worth whom he is identified, and of his 'two mothers' or 'two parents', perhaps Hewen and Earth, which become vamble in the morning: 90.336 statistic matters is interpreted part of morning: 90.336 statistic matters interpreted part of morning: 90.336 statistic matter in the statistic pathol, he made ans two morbers shine: as he was born, as they were born." For the burth of Sonna and of the sorna puze, see also 9 3 9, 10, 93.83, 9.93.7, 9.93.

5.32.11ab than not two satpatim paticajanyam, patim frami yaddsam jánezu "Now I hear that you are the lone settlement-lord belonging to the five peoples, born as the glorious one among the peoples." Thus in 10.72.1, when the poet says that as a result of his hymn one 'will see' the births of the gods, he can mean that one will see a visible manifestation of the gods in the sacrifice or that one will see the gods in one's mind at the sacrifice. Of course, the poet can also exploit both ways of seeing—by visible form and by envisioned presence.

The deity most famously "born" at the sacrifice is Agni, who was anciently given birth by the gods and is newly given birth at the beginning of the sacrificial day.4 In the sacrifice, Agni is engendered by the fire-churning sticks, the aránīs, as in 5.9.3ab utá sma yám sísum yathā, návam jánistāránī "And [Agni], to whom the fire-churning stick has again given birth like a new calf..." and 7.1.1ab agnim náro dádhitibhir aranyor, hastacyuti janayanta ... "Our men gave birth to Agni in the two fire-churning sticks by their insights and by the motion of their hands." The two arans are thus the parents of Agm-the upper piece of wood his father, the lower his mother-or because the word arani (-i) is feminine, they are his two mothers. After the birth of Agni in the ritual, other gods appear, or in a variant conception, the appearance of Agni is their appearance. Thus according to the opening verses of RV 5.3. Agni becomes the visible manifestation of Mitra, Varuna, Aryaman, Indra, and the Maruts. Because the gods appear by means of Agni, in verse 1 the poet declares to Agni himself that "in you are all the gods" (Ic toé visoe . . . deváh) and in verse 4 that the gods are visible in Agni: 4a táva śriyá sudýto deva deváh "By the splendor of you lovely to see, o god, the gods are lovely to see." Here sudyiah 'lovely to see' has double application, both genitive singular modifying Agni and nominative plural describing the gods.5 By referring to both Agni and the gods, sudfáali functions as a verbal icon signifying the simultaneity of Agni's appearance and the gods' manifestation.

Because the birth of Agni and the subsequent appearance of the gods is such a frequently recurrent and prominent theme in the Rgneda, when the first verse of 10.72 mentions the births of the gods in general, we can infer the birth of Agni in particular. And though the poer never directly mentions Agni within the hymn, other suggestions of links between the births of the gods and the birth of Agni and between the ancient birth of the gods and their present birth in the ritual gradually unfold in the hymn's narrative. To be sure, some of these suggestions are oblique, but the Rgneda amply justifies assumptions of poetic subtley and intricacy.

The verses to which I turn special attention are 3 and 4, which enigmatically describe the ultimate origin of things. We can lift some of their obscurity, however, by seeing their connection to the ritual act of kindling fire. These verses are:

10.72.3 devånām yugé prathamé, 'sataḥ sád ajāyata tád dśā ánv ajāyanta, tád uttānāpadas pāri

In the first generation of the gods,
what exists was born from what does not exist.
The regions of space were born following that (which exists)—

10.72.4 bhûr jajña uttānápado, bhuvá ásā ajāyanta áditer dákso ajāyata, dáksād v dáitih pári

> The earth was born from the one whose feet were outstretched; from the earth the regions of space were born. From Aditi, Dakşa [/the Skillfui One] was born, and from Daksa. Aditi.

that was born from the one whose feet were outstretched.

In verse 3, star "what exists" is born from stat "what does not exist," and "what exists" is also born from "the one whose feet are outstretched." I understand "what exists" to point to Agni when he has been churned out as the fire of the sacrifice. "What does not exist" would then refer to the fire before it appears. That is to say, stat here echoes the sense of sarpat, which in other hymns describes the real 'presence' of the gods at the sacrifice. As Oberlies (1998:277–8, 38) has rightly emphasized, the successful sacrifice requires an epiphany of the gods, especially an epiphany of Indra." Agni too must

²Cf also 3,3±.9, in which the reality of the greatness of Indra comes about when he is born and has drunk the soma. Poets also speak of the ancient borth of Soma retually repeated in the present (9,3±9−10) and of the original birth of Indra (± g, ± 1,8−7±,8±0−3), though often cryptically

^{**}Cf. 10.130.6, in which the poet 'sees' in his mind the ancient sages who first performed the sacrifice. 10.130 odd physin manys mánada dobasal faln, yá muány apañán áyapanta párse "Secing with my mind as my eve. I think of the ancient ones who performed this sacrifice."

[&]quot;This interpretation of sudplab as a sless is supported by its placement in the center of the pada midway between the two nominal forms it modifies, thin at one end and denth at the other

⁶Or "from the emerging form." See the discussion below

^{*}C.C. 4.0.1.al and polysius magniforming just "Let hum drove hore (to be) present (sarps) —the generous one with the rilvery cluric? and to 20.4.be kid a dynamium under notions orph, kirja diloyid karuse kidn na djana / matri na saphi arapjuh diloyida "When (will your) bralliance (como) to men like you, Indra? With what sunghit will you arm yourself? When will you come to us. / (being) present (ashyi) like an ally, o wide-ranging one, for our support [Joffering]?

be present, and unlike Indra, he must be visibly present. The central verse of the first hymn of the Rgroda, an omphalos verse, emphasizes the necessity of Agnit's presence: 11.13 agnit' hold karderatuh, suysid ciridiravustamah / dood develbit' d gamma "Agni...as one present (asnyd)...will come as a god with the gods." Without Agni's presence, the other gods cannot be present.

The justification for connecting the presence of Agni to "what exists" partly depends on the most infamous part of this hymn, the birth of "what exists" from the utitinaspad, the "one whose feet are stretched out" or possibly "stretched up" or even "stretched open." The compound utitinaspad occurs in the Rgreada only in this hymn, so it was probably coined by our poet. *B Ru utitina* alone appears seven times in the Rgreada, and these attestations can help us understand what the compound means and, even more importantly, what it suggests beyond its meaning. In different verses, utitina* describes the head of the un "stretched upwards' (4-13.5), the offering ladle stretched out (5.1.3), the 'offering ladle stretched out' (5.1.3), the 'offering ladle of the un's charton (1.1.64.14), and two ritual cups (camias) 'stretched out' or 'open', likely representing Heaven and Earth (1.1.64.33). In two final verses, utitana* describes the lower anaise, the lower free-churning wood:

3.29.3 uttānāyām ava bharā cikitvān, sadyāh pravītā vṛṣanam jajāna arusastūpo rúsad asva pāja, slāvās putró vayāne 'janista

Intent, bear down upon her who is stretched out [= the lower armini].

Impregnated on this same day, she has given birth to the bull [= Agni].

With flame-red crests—his face is glowing—

the Labation's son has been born within the ritual pattern.

2.10.3 uttānāyām ajanayan súsūtam, bhúpad agnúh purupésasu gárbhaḥ śirināyām cid aktúnā máhobhir, áparīpyto vasati prácetāh

In her who is stretched out [= the lower artini], they engendered him of easy birth.

Agni becomes the embryo in the women [= the kindling] dressed in many colors.

The discerning one [= Agm] dwells by night also in (the birth-)canal (?), unable to be confined (there) because of his great powers.

In these verses the lower aránī, extended horizontally, is imagined as a woman 'stretched out' or 'stretched open' to give birth to Agni.

'stretched out' or 'stretched open' to give birth to Agni.

As Geldner and others have rightly argued, strändpad also describes a position
in which a woman gives birth. It is possible that strändpad and the uttänd ardni-

are independent and unrelated reflections of birthing, but that is not very likely. The Rgyeche poets' lexical choices, especially their use of unusual expressions such as ututanipud, create deliberate associations with other lexical items. In this case it is far more probable that through the word ututanipud the poet intentionally evokes the ututual arinh; which gives birth to Agru.

If an association with the lower fire-churning wood can explan utthan-in utthanpard, do the -pard, the 'feer', have special significance? They do, but the poet has hidden
it in another part of the body. The term utthanpard trades on the expression utthanhusta with hands outstretched?, which is attested four times in the Rgweda. In three
of these, utthanhansa appears alongside námnata (3.14-5, 6.16-46, 10.79-2) and describes
a gesture of reverence to the sacrificial fire. Although utthanhansa-námnati is not frequendy attested, the phrase and ritual gesture it describes were likely well known,
for they go back to the Indo-Iranian period. The Avestran equivalent appears in the
first verse of the Gáthás: Y 28.1 ahirá yisia namaphá ustánnasató rafhánhitá "I entreat
with hands outstreetched in reverence of him, (our) support" (Insier 1957:25). Thus
utthánhanta with hands outstreetched 'was sufficiently familiar that it would have been
recalled by uttánápad 'with feet outstreetched'. If uttánápad points to the lower aráni,
it suggests the position of the arishi is not only a birthing position but also a gesture
of reverence to Anni, relocated from the oxiginá ritual gesture but still evererential.

Complicating the interpretation of verse 3 is verse 4, in which "the one whose feet are outstretched" gives birth not only to safe but also to bhá, which in turn gives birth to the 'regions', (dshb). Once again, we are dealing with some verbal legerdemain. Because it gives rise to the 'regions', the primary sense of bhá must be its common meaning, the earth'. But here it is juxtaposed with sát 'what exists, what is', and this juxtaposition evokes the crymological meaning of bhá, 'what becomes'. This erymological meaning in turn recalls a second sense of bhá attested in the Rgrada. A bhá can be a 'form of being' or, better, a 'form of becoming', an 'emerging form'. It is used in this sense in another riddling hemistich appears in two verses, 3,5:13 and 10.27.14. The latter reads:

10.27.14 bṛhánn achāyó apalāśó árvā, tasthaú mātā vísito attı gárbhah anyásyā vatsám rihatí mimāya, kdyā bhuvá ní dadhe dhenúr údhah

Lofty [like a tree] though without shadow and foliage is the steed [= Agni].

The mother [= the lower artini] stands; unbound the newborn [= Agni] eats.

⁸The word also occurs in AVP 5 10.4, where the poet has likely adopted the term from RV 10.72 in order to describe the earth - so Lubotsky 2001.60—as a mother in the position of partition.

OAlthough they date from a thousand years after the Repode and therefore their evidence is hardly conclu-

see, both the Caraka and Suirout Simbita say that a weman in labor should lie on her back with her knees raced and leg particle (Martha Selly, p. p. This could be for postron that saringhad describes. The two sambitas do not approve of borth in a crouching or squarting postron, which is how Geldrier understand, attracting of Thiere (1904:66) primates the phrase "die, decrea "filler (Fullowforb) acid obes relations," which indicates "4th Haltung der Frau bes der Kniegeburt." This kneeling postron is also unlikely to be that described by natinghal with the properties of the pro

Licking the calf [= Agni] of another [= the lower arant], she [- the Libation] lows.

In what emerging form (bhuvá) has the cow hidden her udder?

Although the final question is intended to puzzle, which it succeeds in doing, one possibility is that the 'emerging form', the bhu, is the form of fire, coming forth from the lower arani and fed by the libation. In 10.72.4, by means of the double significance of blnd as 'earth' and 'emerging form', the poet suggests a connection between the creation of the world and the emergence of Agni at the ritual. That is to say, the world rises upwards from the earth just as the sacrificial fire extends upwards

Returning again to 10.72, verse 4 concludes with the birth of Daksa from Aditi and Adıtı from Daksa. The name dáksa has an appellative sense, approximately 'skill' or 'skillful'. Setting aside 10.72 for the moment, there are only two Rgyedic passages (1.89.3 and 2.27.1) in which the god Dakşa appears as an independent deity. More often the term dáksa characterizes another god, usually Agni, although dáksa and the noun daksas are associated also with Soma, Indra, and Mitra and Varuna (Brereton 1981:299). Characterizing Agni, dáksa describes the god's ritual skill, his ability to recognize or to carry out a well-performed rite, as for example in 3.14.7:

3.14.7 tribbyam daksa kavikrato yánīmā, déva mártāso adhraré ákarma tvám vísvasya suráthasya bodhi, sárvam tád agne amṛta svadehá

> For you, o skillful one with a poer's purpose, are these things that we mortals have done in the rite, o god.

Be aware of everyone whose chariot [= sacrifice] is good. Sweeten here all this [= the sacrifice], o immortal Agni.

In 10.64.5ab Agni as dákṣa, the 'skillful one', appears alongside the goddess Aditi, and therefore in 10.72 dáksa may not only name the god Daksa but also point to the 'skillful' Agni

Another hymn dedicated to Agni, RV 10.5, confirms the possibility of this interpretation of 10.72. The language of its last verse parallels that of 10.72 in its references both to Aditi as the mother of the dáksa-in 10.5 clearly dáksa Agni-and to ásat and

10.5.7 ásac ca sác ca paramé vyòman, dáksasya jánmann áditer upásthe agnír ha nah prathamajá rtásya, púrva áyuni vrsabhás ca dhenúh

> What exists and what does not exist (are/were) in the farthest heaven. at the birth of the skillful one [=Agni] in the lap of Aditi. Agni is the firstborn of truth for us (and both) bull and cow in his ancient lifetime.

The second half-verse refers both to the present, in which Agm is the "firstborn of truth for us" in the sacrifice, and to the distant past, into which Agni's "ancient lifetime" extends. In the first half-verse, suppression of the verb makes possible a similar reference to both past and present, "What exists" and "what does not exist" and "the birth of the skillful one" can describe the original creation, but they can also refer to the present. In the present Agni is born "in the farthest heaven" in the form of the rising sun (as in 7.5.7). Thus "what exists" and "what does not exist" can once again represent the presence and absence of Agni, the moment of his coming into visible being as both the morning sun and the morning fire.

While there is much of RV 10.72 that I have not discussed, I have tried to account for its central structure and establish its opening theme. Overtly the hymn describes the births of the gods, as stated in its first verse and affirmed in its central one. But especially in verses 3 and 4, the way in which the poet describes the births of the gods links them to the birth of Agni, the ritual fire. The surface register of the hymn is one of creation and divine genesis; reference to the ritual is created by slesa, association, and suggestion, that is, by literary strategies familiar from later Sanskrit literature but already deployed in other Rgyedic hymns. By thus linking the births of the gods to the birth of fire, the appearance of the gods to the appearance of Agni, the hymn fashions the ritual kindling of fire into a sign of the gods' epiphany. Each time fire is churned out, Agni is born, and through him, the gods are once again born as they were in the beginning. Granted, this interpretation of the hymn is hardly an obvious one, but the hymn may not have been as elusive to its original audience as it might appear. If this hymn is an Agni hymn, originally recited in the morning at the kindling of fire, then its reference to the ritual would have been contextually evident to its ancient hearers.

There is evidence also outside this hymn that supports understanding a reference to the ritual within it. Starting with RV 10.61 and running through 10.85, the hymns of the tenth mandala are arranged in related pairs.10 In most cases, the Anukramani assigns each pair of hymns the same dedicand and the same poet. The hymn paired with 10.72 is 10.71, dedicated to Knowledge (Jñāna) and attributed to Brhaspati Angirasa. The dedicand for 10.72 is the "gods," and the poet is Brhaspati Angirasa, Brhaspati Laukya, or Adiri Däksäyani. Thus the Anukramani does not associate 10.72 as closely to 10.71 as it does other pairs of hymns. But here I think the Anukramanī understates the link between the two hymns that their placement together in the mandala implies.

Rgveda 10.71 concerns the mastery of ritual speech, essential for priests performing the rites. The hymn begins by recalling the ancient seers, who first found the 'name set down in secret' (nămadhéyam...níhitam gúhā), the mystery articulated in their

[&]quot;Following the Anukramani, 10.61-6 are three pairs of hymns to the All Gods, each pair by a different poet, 10.67-8 are hymns to Brhaspati by Ayasya Angurasa, 10.69-70 are hymns by Sumitra Badhryasya, 10.81-2 are hymns to Viśvakarman by Viśvakarman, and 10.83-4 are to Manyu 'Battle Fury' attributed to Manyu. The only pair of hymns in this collection that are not related in a close and obvious way are 10.75 to the Streams of Water attributed to Sindhuksit Parayamodha and 10 76 to the Pressing Stones by the serpent Jaratkarna Airavata

speech The concerted priestly action and effective priestly speech of the ancient seers are models for contemporary priests, to whom the poet shifts his attention in the second verse. These priests, he says, have created the speech of the sacrifice, and their shared knowledge and their shared shollify to express that speech bind them together. The hymn acknowledges that not everyone who would rocite or compose is capable of doing so (vs. 4); the talent of some is unproductive and their words are sterile, bringing no "fruit or flower" (3d vlaam ... aphalám apuspám). Likewise, an uncooperative priest betrays the speech he perceives because only together can priests perform the rite (vss. 6, 9). This summary of its first half captures the hymn's principal themes. The poet presents the origin and nature of ritual speech, affirms its centrality in the rite, and stresses the importance of cooperation among priests. What connects 10.7 and 72 is that they are complementary discourses on the ritual while 10.71 concerns ritual speech and the unity of the priests as masters of speech, 10.72 concerns ritual action, the kindling of fire as a replication of creation and the resulting epiphany of the gods.

I realize that I have taken the interpretation of 10.72 in an unusual direction. Exegetes normally understand this hymn to present a general politosophy. So, for example, Falk (1994:21) compares this hymn to the later Sāṃkhya system and argues that it anticipates the Sāṃkhya principle of satkāŋynāda. To be sure, there is a cosmogony in the hymn and there are potentially philosophic themes, but fundamentally the hymn presents the ritual as modeled on an ancient divine genesis and as mediating a present divine genesis.

What I suggest here can also apply to other "philosophic" hymns of the Revelat. Like to.73, hymns such as to.90, the pursuasikta, and to.120, the naturalization are also other most famous such hymns—are also interpretations of the ritual and commentaries on the priesthood. In RV 10.90 the figure of the Pursus, whose body becomes the elements of the ritual, pars of the world, and divisions of society, corresponds to the Middle Vedic figure of Prajāpati, who embodies the sacrifice." Elsewhere (Bereton 1999), I have argued that RV 10.129 identifies the ultimate power of creation as thought. Since knowledge and speech defined poets and priests, the hymn declares the power that is possessed by poets and priests to be the highest of all creative powers and of all modes of creation. Thus all three hymns, 10.72, 10.90, and 10.139, are interpretations of the ritual and in this respect anticipate the Brähmana commentary of the Middle Vedic period. Then later they were hermeneutically transformed into general philosophic statements.

References

- Brereton, Joel P. 1981. The Repreduc Adityas. New Haven: American Oriental Society.
- 1999. "Edifying puzzlement: Rgveda 10.129 and the use of enigma." Journal of the American Oriental Society 119:248-60.
- Falk, Harry. 1994. "Die Kosmogonie von RV X 72." Wiener Zeitschrift für die Kunde Südasiens 18:1–22.
- Geldner, Karl F. 1951. Der Rig-Veda aus dem Sanskrit ins Deutsche übersetzt. Cambridge, MA: Harvard University Press.
- Hoffmann, Karl. 1957. "Märtända und Gayörnart." Munchener Studien zur Sprachnissenschaft 1:38-70.3. [Reprinted in Auflätze zur Indoiranistik, ed. Johanna Narten, 2.422-38. Wiesbaden: Reichert, 1976.]
- Insler, Stanley. 1975. The Gathas of Zarathustra. Leiden: Brill.
- Jamison, Stephanie W. 2004. "Poetry and purpose in the Rgveda: Structuring enigmas." In The Vedus: Texts, Language and Ritual. Proceedings of the Third International Vedic Workshop, Leiden 2002, ed. Arlo Griffiths and Jan E. M. Houben, 237–49. Groningen: Forsten.
- . 2007. The Rig Veda between Two Worlds/Le Rgreda entre deux mondes: Quatre conférences au Collège de France en mai 2004. Paris: Collège de France.
- Jamison, Stephanic W., and Joel P. Brereton. 2014. The Rigueda: The Earliest Religious Poetry of India. New York: Oxford University Press.
- Lubotsky, Alexander. 2002. Atharvaveda-Paippalāda Kānda Five. Cambridge, MA: Department of Sanskrit and Indian Studies, Harvard University.
- Oberlies, Thomas. 1998. Die Religion des Rgreda. Vol. 1, Das religiöse System des Rgreda. Vienna: Institut für Indologie der Universität Wien.
- Thieme, Paul. 1986. "Zu RV 10.7.2." In 0-0-pe-n-si: Festschrift für Ernst Rich zum 7: Geburstag, ed. Annemarie Etter, 159–75. Berlin: de Gruyter. [Reprinted in Kleme Schriften, vol. 2, ed. Renate Söhnen-Thieme, 939–55. Stuttgar: Steiner, 1995.]

Within the hymn, the poet identifies the Purusa as both the sacrificial victim and the sacrifice nself: 10.90 73b tain vapidam barifisi prinikhan, pinisham patiam agmatab "On the ritual grass they consecrated that sacrifice, the Purusa, born at the beginning"

Schwa Indogermanicum and Compensatory Lengthening

ANDREW MILES BYRD

r Introduction

In her seminal paper "The Quantity of the Outcome of Vocalized Laryngeals in Indier," Stephanic Jamison demonstrates that the seemingly random reflexes of interconsonantal laryngeals in Indic were in fact rule-governed, once one takes morphology
into consideration. She convincingly identifies a conditioned phonemic split within
the prehistory of Indic, with "vocalized laryngeals being realized as long /// before a
consonant at the end of the word, and short // lesswhere (Jamison 1988:220.) In this
small contribution in her honor I hope to address a hitherto 1900 red problem in the
study of Jaryngeal vocalization in PIE as well as to explore briefly why pre-consonantal
vocalized laryneals were realized as long // in word-final position in Indic.

2 Schwa Indogermanicum

There are two possible ways that one may view the phonetic and phonological reality of vocalized laryngeals within PIE:

- Direct Vocalization: */dħh₁tó-/ → *[dħħ₁]₀[tó-]₀ 'placed' > Gk. θετός, Skt. bitá-
- Vowel Epenthesis: */dħh₁tó-/ → *[dħɔh₁]₀[tó-]₀ 'placed' > Gk. θετός, Skt. httá-

The first hypothesis, which claims that interconsonantal laryngeals were directly syllabified as the syllable nucleus, is certainly a reasonable one, given the many parallels in Salishan and Caucasian languages³ and the fact that the PIE resonants behave in a similar fashion (cf. */tntós/ - * ftmtós] 'srreched'). However, many Indo-Europeanists prefer to view laryngeal 'vocalization' as vowel epenthesus on account of certain cases of stop aspiration by *b, within Indo-Iranian; one need only cite the par */fpl.tfc-/ > pitdir- (with unaspirated /p/) and */dhugh_ter-/ > dubntár- (with /h/ from earlier *-j*-). This latter approach is the most common one, taken most notably by Mayrhofer (ro86:118):

In virtuellen ersten Silben entstand ein überkurzer Sproßvokal vor dem Laryngal (H), der indoiranisch zu h/ führte, öhne vorangehende Verschiußkaute zu spieren. . In virtuellen Mittelsilben stand der Sproßvokal hinter dem Laryngal (H_e), woraus sich Behauchung und Vokalsserung im Vedsschen und Prasun (dubitsie-), nur Behauchung in Teilen des Iranischen (alavest. Augustar-), nur Vokalisierung in einem Teil der restlichen Sprachen . . . , schießlich Schwund . . in den übrigen Sprachen . . . ergab.

But a problem arises upon closer inspection. Why are forms with pre-laryngeal wowl openthesis such as PIE *[psh₂tef-] 'father'—with an "überkurzer Sproßokal" that we may identify as *[1]—invariably found with a short vowel in the initial syllable in the daughter languages, and not a long one? That is to say, if a vowel had been epenthesized before a laryngeal in *[ph₂tef-], then why close it produce Lat. pater, Skt. pitár- and not Lat. *Páter, Skt. *Pitár-? At first glance, such lack of compensatory lengthening (CL) appears to pose a problem for the vowel epenthesis hypothesis, arguing in favor of direct laryngeal vocalization. However, we will see that a lack of CL in this configuration has well-grounded theoretical and phonetic motivations, with parallels across many languages and language families.

Before we proceed with the matter at hand, a few words must be said about the process of syllabification within PIE. Indo-Europeanists have traditionally concerned themselves with how sequences were parsed into syllables in PIE, through the identification of syllable nucleus assignment and the placement of syllable boundaries in polysyllabic words. This topic has been well studied, by Hermann (1923), Meillet (1937:194-6), and most famously Schindler (1977:56), who characterized PIE syllabification as applying in a "right-to-left" iterative fashion, such that if two adjacent segments are potential syllable nuclei, the rightmose is always chosen as the nucleus as long as it is not adjacent to a "true" vowel (*g. *g. *g. *o, etc.).*

However, beginning with Keydana 2004 (followed by Byrd 2010a), scholars have increasingly realized that we may also identify wheth sequences could be parsed into syllables in PIE. For while PIE allowed a number of different types of complex syllables, it did not allow all types of syllables. As I argue in Byrd 2010a1107, we may

In this article I will make an explicit distinction between underlying forms (e.g., /ph₂/eix/) and surface forms (e.g., [poh₂/eix/)), with yillable boundaines being marked with subscript sigmar: [poh₂], [efx],. An arrow (---) indicates a synchronic phonological process, a greater-than sign (>) a dischronic one. Forms marked by (*) are reconstructed, those marked by (*) are reconstructed, those marked by (*) are reconstructed.

² See Kessler n.d. for discussion and references.

Cf Fortson 2010:62.

⁴Schundler's right-to-left syllabification algorithm has since been interpreted in a number of different ways, as onset maximezation (Kobayashi 2004, 23-44), the avoidance of coronal sonorants in coda position (Keydana aco8 [2010]), the alignment of syllables to the left edge of the word (Cooper 2012), and an epiphenomenon created by quantative ablast (Byrd 2015)?)

identify the entire range of possible syllable shapes in PIE as those which do not violate the MAXIMUM SYLLABLE TEMPLATE (MST):

(1) MAXIMUM SYLLABLE TEMPLATE (MST)

The maximum PIE syllable consists of two consonants in the onset and two consonants in the coda (CCVCC). The onset may wolate the Sonority Sequencing Principle (SSP); the coda may not.³

The facts of the MST are as follows. While certain SSP violations were permitted within PIE onsects within fincative plus stop clusters (${}^{*}[a^{\dagger}ug]_{\nu}[_{\nu}]_{\nu}$ ter- $[_{\nu}^{\dagger}]_{\nu}$ daughter- $[_{\nu}^{\dagger}]_{\nu}$ fis($[_{\nu}]_{\nu}$ fis($[_{$

- Schwa primum: PIE */ph-trés/ -> *[poh-], [trés], 'father (gen.sg.)'
- Schwa secundum: PIE */dhghmés/→ *[dhogh], [més], 'earth (gen.sg.)'

Since the underlying word-initial sequences "php.tr-/ and "pld"g\textit{m}", violated the MST, they could not be syllabified in PIE, and therefore a vowel was epenthesized in order to produce licit syllabile structure. Given that both rules involve the epenthesis of a reduced vowel to make an unsyllabifiable sequence syllabifiable, it is reasonable to assume that these were not disparate processes, but rather a single syllabically motivated rule of schwa epenthesis, which we may call schwa indogermanicum "[5]. But even so, the puzzling absence of compensatory lengthening in the sequence "-ohs.]- remains unexolatined.

3 Should *-oh,], > *-ō], in late PIE?

Compensatory lengthening (CL) may be defined as "the lengthening of a segment triggered by the deletion or shortening of a nearby segment" (Hayes 1989:260). While there are a number of types of CL (see Kavitskaya 2003), it most commonly occurs in the following scenario: a post-vocalic consonant is lost in the tautosyllabic sequence $VC(C_0)$ ₁₈, and upon deletion, the preceding vowel is lengthened: $VC(C_0)$ ₁₉, $VC(C_0)$ ₁₈. Such a process is illustrated in the following well-known example: PIE /nisdós/ $VC(C_0)$ ₁₈. Such a process is illustrated in the following well-known example: PIE /nisdós/ $VC(C_0)$ ₁₈. Such a process is illustrated in the following well-known example: PIE /nisdós/ $VC(C_0)$ ₁₈. Such a process is illustrated in the following well-known example: PIE /nisdós/ $VC(C_0)$ ₁₈. Within the phonological Increature (see Hayes 1989), CL is typically defined in terms of mora reassignment, with a mora (u) defined as a unit of syllabic weight (Hayes 1989;254). Thus, after the loss of coda "s in the change from PIE "nisdós' next' to Latin nidus, the mora that was originally associated with "s became linked to the preceding vowel, thereby creating a long vowel.

(a) PIE *nizdós 'nest' > Lat. nīdus



Of course, such a process requires the deleted consonant in question to have been moraic. But languages may in fact differ as to which types of segments can carry a mora in the coda: in Malayalam coda consonants never carry a mora, in Lithuanian only sonorants carry a mora, while in Latin all consonants carry a mora in the coda (Gordon 2006). If one were to posit that PIE had been a language like Malayalam or Lithuanian where obstruents were nor moraic in coda position (cf. Cooper 2013), then compensatory lenthening in the sequence *-oh₀], would not be expected, as laryngeals would not have carried weight.

But this is unlikely for a variety of reasons. To begin with, the quantitative poctic meters of most ancient IE languages (Latin, Greek, Sanskrit, etc.) suggest that all consonants, not just resonants, were assigned a mora in coda position. Second, as I have argued in Byrd 2010b, a grounded conception of Sievers' Law requires obstruents to have been moracis in PIE, as Sievers' Law was motivated by the avoidance of a superheavy syllable. And lastly, and for our purposes most significantly, there are a number of likely cases of obstruent consonant deletion reconstructible for PIE that exhibit compensatory lengthening:

[&]quot;The SSP may be stated as follows: "Between any member of a syllable and the syllable peak, only sounds of higher sonorty rank are permitted" (Clements 1900:288). I assume the following universal sonority the erarchy to have been present in PIE. vowels > glides > liquids > nasals > fricatives > stops. See Byrd

^{*}Certain MST violations were permitted at word's edge via rules of extrasyllabicity (Byrd 2010a 86, 100);
of, *sfreei-L-'strew', *hi-latér-L-'star (nom.sg.)', and *fnck*[Lats 'evening (gen.sg.)'

[&]quot;The most widespread example of stray crasure in PIE involves laryageal loss wa Lax Sciousors."

ALEXSETIES in the word-media sequence CLILCO "Afglupptiet" > 4"("Maylla, [tricla,) = ("Maylla, [tricla,) - "Law [tricla, "Law [tr

⁸See Kavitskaya 2002 for other types of CL.

^{*}As Gordon (2006) discusses, syllable weight may be independently identified on the basis of a number of honological rules, including stress, tonal assignment, and CL. However, since stress/one (i.e. pitch accent) was phonomism in PEIs, it is difficult to see how it could be a useful metric here.

- (a) PIE Obstruent Deletion with CL
 - ı. Stang's Law: 10 */ $\mathrm{ch}_2\mathrm{m}/\to$ *[-am] > Skt. sen-ām, Gk. $\tau \bar{\eta} \iota$ - $\tau \bar{\eta} \nu$, Lat. puell-am
 - Szemerényi's Law:¹³ */uók^w-s/ → *[uóg^w] >> *[uók^ws] 'voicc' > Av.
 - Degemination;¹² */h₂éus-os-s/ → *[h₂áusŏs] 'dawn (nom.sg.)' > Skt.
 - Medial Cluster Simplification:¹³ */ré-tk-ti/ > *[rékti] 'fashions' > Skt.
 - Late/Post-PIE Laryngeal Deletion: * [dhéh_imŋ] > Gk. (ανά-)θημα 'offering'

I recognize that many of the processes listed above are not universally recognized, and it is not my intention to sway the reader one way or another on these matters—I simply refer the reader to the references cited. Fortunately, for our purposes processes (3.1) and (3.5) will suffice: it is clear that laryngeals were moraic in coda position within PIE and afterwards. And since a laryngeal would have carried a mora in the sequence "-->, h. | _. C. Li sindeed expected.

Nevertheless, there are certain laryngeal-loss rules reconstructible for PIE that exhibit no CL." For instance, Kuiper's Law (Mayrhofer 1986-149), which deletes post-vocalic laryngeals in absolute utterance-final position (in pausa), produces a short vowel: cf. Gk. v_{abda} (ymph ($v_{co.s.g.}$) (< PIE v_{ab}), and Ved. indintaring ($v_{co.s.}$) (< PIE v_{ab}), We also find no CL with Lex Schmidt-Hackstein (see n. 7 above): PIE $v_{abv}^{(1)}$, $||V_{abv}^{(1)}|$, |

10 Mayrhofer 1986:164.

Cross-linguistically, one also observes that CL tends not to apply in unstressed syllables: observe the loss of I_M in non-rhotic dialects within the name 'Herbert' \rightarrow { hobbet}, nor '{ hobbet}," While it is likely that stress is somehow connected to our present problem, it cannot explain it entirely, since unstressed sequences of "-Vh, L. produce CL after largingal loss".

- (4) Compensatory Lengthening in Unstressed Syllables
 - 1. *|gwihala|uó-la 'alive' > Ved. ñvá-, etc.
 - *[bhé]_σ[roh₃]_σ 'I carry' > Lat. ferð, Gk. φέρω, etc.
 - 2. *[dhuh, la[mó-la 'smoke' > Ved. dhūmá-, Lat. fūmus, etc.

To sum up, it seems exceedingly likely that laryngeals were moraic in coda position, and so laryngeal loss in the sequence *-sh₁, should trigger CL. Since other phonological processes cannot be utilized to explain the problem at hand, we are led to conclude that there was something *special* about *[a] that led to short vocalisms in the IE languages.

4 PIE *[a] as a weightless vowel

Cross-linguisrically, there are four basic factors that determine the length of a vowel in a word: (1) vowel quality, (a) stress, (3) the number of syllables in the word, and (4) whether the vowel is found in an open or closed syllable. In all four of these regards, PIE ¶3 in the sequence "shi, I comes our short: (1) [3] is typically the shortest vowel of a vowel system, if a language possesses a [3] phoneme or allophone; I (3) [3] is always unstressed in PIE—there are no securely reconstructible cases of accented vocalized laryngeal; (3) [3] is always found in the initial syllable of polysyllabic words (such as "[4]*ht[],[rofs], "placed"; "o and (4) [3] is always found in a closed syllable "[pals], [rirss], "father (gen.ng,)", "[4]*s[],[rofs], "earth (gen.ng,)"). Put together, these facts argue strongly in favor of the idea that PIE [5] was an extremely short vowel.

Such brevity holds ramifications for PIE phonology. As Gordon (2006:45) notes, in many of the world's languages vowels must have some minimal duration in order

Following the "broad" conception of Szemerénya's Law; see Sandell and Byrd, in preparation.

^{*}Szemerényi 1970/109, Blynd 2010a* 15-22... The lengthened vowed in the suffix of *B_ydans* is often taken to be analoguea to forms such as *M²g/Rm* carth (nonn.sg.), but this is an unnecessary assumption. Moreover, as pointed out by Szemerenyi (1996.1197), such simplifications may handle difficult-to-explain long voxalismis, such as *M²sey → *Inial* house (nonn.sg.)* and *J²g/sey / *Inial* poison (nonn.sg.)*.

¹³Rix apud Harbarson 1993:29 n. 12; cf. Kortlandt 2004. For a recent rebuttal of the existence of "Narten roots," see Melenert 2014.

¹⁴ Fortson 2010 63

Note that unlike in word-final position, word medial degenination never produces CL. */ném-rine/ →
*Inémnj 'pgft' > Olt near 'poision' (Rasmussen 1999:04-7), */h/6-sid 'you are' > *Ih/6-fin | > Six. da, Gix. d,
etc. (Mayrhofer 1986 120-1). Of course, these facts are irrelevant for the problem at hand, as the sequence
*sh.l. is not out of a geninate sequence

¹⁶ Peters 1900 447 and Neri 2011

weather rule, but other instances of schwa primum may not: */d\bar{n}_hs\cdot-j \rightarrow [d\bar{n}_hs\cdot-j] \rightarrow [d\bar{

[&]quot;Cited here in Received Pronunciation

[&]quot;Ladefoged 2005:72.

^{**}Cf. Hemming 2009:87: **The medial schwa vowels [in English (AMB)] . average 64 ms.. By comparison, tense vowels can be as long as 300 ms in citation forms.. and are on the order of 150 ms in fluent

^{**}I explicitly reject the reconstruction of any word-medial or word final instances of schwa primum for PIE, for which I refer the reader to Byrd 2015.14-7. Thus, "A"ughter/ 'daughter' was pronounced as "d"ughter-I not I d"ught, 201-1 and "A("chileth, I)" spoke as "(c)elmelugh, I) or "I ["onlyingh, I"].

to receive a mora. Mayrhofer was therefore on the right track in his assumption of an "uberkurzer Sproßvokal" —PIE *[3] was just roots hort to receive a mora. The assumption that *[3] was a weightless rowel would directly explain the lack of CL in the PIE sequence *ah., |, as weightless rowels are frequently invisible to phonological processes, including CL (Gordon 2006). One such example may be found in Silammon [4á?amu], a Central Coast Salish language spoken in British Columbia (Blake 2000), in which a short vowel is monomoraic, a long rowde or sequence of vowel plus consonant bimoraic, and [2] is non-moraic, consisting of a bare nucleus not associated with any mora. In Silammon one of the functions that epenthetic schwa serves is to satisfy certain syllable structure constraints (such as *COMPLEX/ONSETS); similarly the purpose of PIE *[3] was to satisfy the syllable structure constraints (such as *COMPLEX/ONSETS) and to other highly ranked markedness constraints. *A sevidenced by CL, coda consonants in Silammon are moraic (Blake 2000:106).

(5) Sliammon Compensatory Lengthening

1. /ga?t²θap/ → [gáɪt²θʌpʰ] 'drive, steet'

2. /ti?ta/ → [títʌ] 'that one (gen.)'

3. /tih/ → [tít] 'big'

/sá?p'iq^wànθas/ → [sá?p'eq^wàtθas] 'he hit me on the head'

Examples of consonant deletion following [3] are quite rare in Sliammon, due to a lack of CL in unstressed syllables (Blake 2000:109) and a constraint blocking stressed [3] in open syllables (Blake 2000:231). However, in sequences of [3] + glide, we do find fusion of the two segments into a short vowel, which necessitates that [3] be weightless (Blake 1992:37, 86):

(6) Sliammon Schwa Diphthongs

/> + y/ → [i] /sɔy-sɔy-say'/ → [sísisɔy'] 'they are afraid'
 /> + w/ → [u] /tɔw-towmay'ɔ/ → [tútuumàyɔ́] 'west wind'

Kager (1990:248) describes a similar situation for Dutch, where (as in Sliammon) short wowels are monomoraic, long wowels and the sequence wowel plus consonant are bimoratic, and /a/ is non-moraic. As expected, /a/ is never lengthened via CL if a coda consonant is deleted (Booii 1995:139-40), unlike short wowels (cf. Booii 1995:148).

(7) Deletion of Coda /n/ in Dutch

1. open /open/ → [ope] 'open'
2. buikentye /kceykon-tjs/ → [kceykotjs] 'chicklet'
3. on-neer /on-ver/ → [Siver] 'thunderstorm'
4. on-zeker /on-zekst/ → [Sizekst/ 'uncertain'

As in Sliammon and Dutch, I propose that the PIE vowel system contained three types of syllable nuclei at the surface: monomoraic ($\P[i, e, a, o, u]$), bimoraic ($\P[i, e, \bar{a}, \bar{o}, \bar{u}]$), and non-moraic ($\P[i]$).

We may now return to the erymon cited above, ${}^{a}d^{a}h_{i}$ tós/ 'placed', whose original moraic structure was ' ${}^{a}d^{a}h_{i}$ uós, ${}^{a}s_{i}$ in PIE. At whatever point laryageal loss occurred within the sequence ' ${}^{a}h_{i}h_{i}$ (whether within late PIE or in the IE daughter languages), the mora once linked to the laryngeal became associated with the preceding weightelss vowel ' ${}^{a}s_{i}h_{i}$ resulting in a true, monomoraic vowel, ${}^{a}s_{i}h_{i}$. It is in this way that CL does in fact occur:

(8) PIE *[dhɔhitós] 'placed' > post-PIE *[dhɔala[tós]



This monomoraic vowel later merges with other wowels within the prehistory of each IE language family: Gk. e, a, a, I.Ir. i, elsewhere a. But what about schwa secundum, by which I mean PIE *[3] that was not immediately followed by a laryngeal? In all languages but one, this weightless *[3] merged together with the inherited monomoraic schwai: Lat. a (puntiner *Ion* \sim * 10

All of this brings us back to where we began—with Sanskrit, in which vocalized laryngeals merged together with long [i] in pre-consonantal word-final position (*[(e|mleuls,i] > Skr. dbranii') and short [i] elsewhere (*[pah,iet] > pid,i*[d'ugh,iet] > duhiid). With the above taken into consideration, we would perhaps expect a short [i] across the board, given the breviey of the epenthetic wowel in PIE. So how did Indic III come about? Recall that *jol only surfaced in word-initial syllables in PIE; thus,

²⁴ See Byrd 2015 128 32.

³²Though I have chosen to work within a framework that assumes moras, my hypothesis is entirely compatible with the ideas of Kavitshaya (2002), who proposes that compensatory lengthening directly results from the phonologization of yowed length upon segment deletion

^{**}High vowels are universally shorter than low vowels; see Lindblom 1963, Lehiste 1970, Gussenhoven

³⁴Following Vine 1999.

PIE *[pah₁tér] beside *[d^hugh₂tér], *[(e)mleuh₂t]. Perhaps inherited *[3] was utilized in Proto-Indo-Iranian to fix an illisti laryngeal sequence in word-final position: {amrauh₂t} = *{amrauh₂t} = *{amrauh₂t}. It is well known that vowels are cross linguistically longer in final syllables than in non final ones;** and so it is conceivable that this length was transferred when the merger of *[3] with f/0 occurred: non-final *[3] > [t/i, final *[3] > [t/i]. But such an explanation does not account for why short [i] is produced in absolute word-final position; thus, *finéth₃!> máth* 'great', not **máthi.

Since laryngeal vocalization in word-final position was a post-PIE, i.e. Indo-Iranian process, it is possible that the change of PIE [*] to PIE. [*] ip receded word-medial and word-final vocalization, with monomorale [*i] becoming the default epethetric vowel in Proto-Indo-Iranian, as in Proto-Greek. To account for the differences in length (as has been done in the past), we may suppose that epenthetic [*i] was inserted before the laryngeal in the word-final sequence "CHCA* triggering (L on the preceding vowel after laryngeal loss: "lamray $Ht/ \rightarrow "[a]_t [mra]_t [uiHt]_t > i larvanial is the proton of a shootte word-final position: "<math>l$ amray $Ht/ \rightarrow "[a]_t [mra]_t [uiHt]_t > i larvanial position: "<math>l$ amray $Ht/ \rightarrow "[a]_t [mra]_t [uiHt]_t > i larvanial position: "<math>l$ amrayl

References

- Blake, Susan Jane. 1992. "Two aspects of Sliammon phonology." Master's thesis, University of British Columbia.
- 2000. "On the distribution and representation of schwa in Sliammon (Salish): Descriptive and theoretical perspectives." Ph.D. diss., University of British Columbia
- Boois, Geert. 1995. The Phonology of Dutch Oxford: Oxford University Press.
- Byrd, Andrew Miles. 2010a. "Reconstructing Indo-European syllabification." Ph.D. diss., UCLA.
- 2010b. "Motivating Sievers' Law." In Proceedings of the 21st Annual UCLA Indo-European Conference, ed. Stephanie W. Jamison, H. Graig Melchert, and Brent Vine. 4-67. Bremen: Hempen.
- . 2015. The Indo-European Syllable. Leiden: Brill.

- Clements, George N. 1990. "The role of the sonority cycle in core syllabification." In Papers in Laboratory Phonology: I Between the Grammar and Physics of Speech, ed. J. Kineston, 283–313. Cambridge, UK: Cambridge University Press.
- Cooper, Adam. 2012. "Syllable nucleus and margin in Greek, Vedic, and Proto-Indo-European." Ph.D. diss., Cornell University.
- Flemming, Edward. 2009. "The phonetics of schwa vowels." In Phonological Weakness in English, ed. Donka Minkova, 78–98. Basingstoke: Palgrave Macmillan.
- Flemming, Edward, and Stephanie Johnson. 2007. "Rosa's roses: Reduced vowels in American English." Journal of the International Phonetic Association 37:83-96.
- Fortson, Benjamin W. IV. 2010. Indo-European Language and Culture: An Introduction, 2nd ed. Malden: Wiley-Blackwell.
- Gordon, Matthew Kelly. 2006. Syllable Weight. Phonetics, Phonology, Typology. New York: Routledge.
- Gussenhoven, Carlos. 2004. "Perceived vowel duration." In On Speech and Language: Studies for Sieb G. Nooteboom, ed. Hugo Quené, 65–71. Utrecht: Netherlands Graduate School of Linguistics (LOT).
- Hackstein, Olav. 2002. "Uridg. CH.CC > C.CC." Historische Sprachsorschung 115:1-22.
 Harðarson, Jón Axel. 1993. Studien zum urindogermanischen Wurzelaorist. Innsbruck:
 Institut stir Sprachwissenschaft der Universität Innsbruck.
- Hayes, Bruce. 1989. "Compensatory lengthening in moraic phonology." Linguistic Inquisty 20:213-306.
- Hermann, Eduard. 1923. Subenbildung im Griechischen und in den andern indogermanischen Sprachen. Göttingen: Vandenhoeck & Ruprecht.
- Jamison, Stephanie W. 1988. "The quantity of the outcome of vocalized laryngeals in Indic." In Die Laryngaltheorie und die Rekonstruktion des indogermanischen Lautund Formenystems, ed. Alfred Bamnesberger, 21–26. Heidelberg: Winter.
- Kager, René. 1990. "Dutch schwa in moraic phonology." In Papers from the 26th Regional Meeting of the Chicago Linguistic Society, vol. 2: The Parasession on the Syllable in Phonetics and Phonology, ed. M. Ziolkowski, 189–214. Chicago: Chicago Linguistic Society.
- Kavitskaya, Darya. 2002. Compensatory Lengthening: Phonetics, Phonology, Diachrony. New York: Routledge.
- Kessler, Brett. N.d. "On the phonological nature of the Proto-Indo-European laryngeals." Accessed May 20, 2014. http://spell.psychology.wustl.edu/~bkessler/.
- Keydana, Gotz. 2004. "Silbenstruktur und Phonotaktik im Indogermanischen." In Indogermanistik – Germanistik – Linguistik: Alten der Arbeistagung der Indogermanischen Geellschaft, Jena 18.–20.09.2002, ed. Maria Kozianka, 163–92. Hamburg Kovać.
- 2008 [2010]. "Hohe Sonorität in der Koda: Indogermanische Losungen für ein phonetisches Problem." Historische Sprachforschung 121:54~64.

²⁰For instance, in English, non-final schwa vowels (above) average a length of 64 ms, while word-final schwas (sofa) have a mean duration of 133 ms (Flemming and Johnson 2007).

²⁷ In addition to gm(b)b, LIV^2 cites two other roots of the shape *ePb_b (where P = any unaspirated stop) that directly attest root agents in the singular minimit 'sreals' (< *midb_bt) and (min) lebbs '(don't) scratch' (< *restleb_bt) and (min) lebbs '(don't) scratch' (< *restleb_bt).

Kobayashi, Masato. 2004. Historical Phonology of Old Indo-Aryan Consonants. Tokyo: Fujiwara.

Kortlandt, Frederik H. 2004. "Accent and ablaut in the Vedic verb." Indo-Iranian Iournal 47:7-15.

Ladefoged, Peter. 2005. Vowels and Consonants. 2nd ed. Malden: Blackwell.

Lehiste, Ilse, 1970. Suprasegmentals, Cambridge, MA: The M.I.T. Press.

Lindblom, Bjorn. 1963. "Spectrographic study of vowel reduction." The Journal of the Acoustical Society of America, 35:1772-81.

LIV^a = Kümmel, Martin, and Helmut Rix (eds.). 2001. Lexikon der indogermanischen Verben: Die Wurzeln und ihre Primarstammbildungen. 2nd ed. Wiesbaden: Reichert.

Mayrhofer, Manfred. 1986. Indogermanische Grammatik. Vol. 1, Part 2: Lautlehre. Heidelberg: Winter.

Meillet, Antoine. 1937. Introduction à l'étude comparative des langues indo-européennes. 8th ed. Paris: Hachette.

McIchert, H. Craig. 2014. "Narten formations' versus 'Narten roots'." Indogermanische Forschungen 119:221–8.

Neri, Sergio. 2011. "Wetter: Etymologie und Lautgesetz." Ph.D. diss., Friedrich-Schiller-Universität Iena

Peters, Martin. 1999. "Ein tiefes Problem." In Compositions Indogermanicae in memoriam Jochem Schindler, ed. Heiner Eichner and Hans-Christian Luschützky, 447–56 Prague: Enigma.

Rasmussen, Jens. 1999. Selected Papers on Indo-European Linguistics, Part 2. Copenhagen: Museum Tusculanum.

Rau, Jeremy. 2003 [2009]. "Vedic Sanskrit asiti- '80'." Munchener Studien zur Sprachwissenschaft 63:139–44.

Ringe, Don. 1996. On the Chronology of Sound Changes in Tocharian. Vol. 1. New Haven: American Oriental Society.

Sandell, Ryan, and Andrew Miles Byrd. In preparation. "In defense of Szemerényi's Law."

Schindler, Jochem. 1977. "Notizen zum Sieversschen Gesetz." Die Sprache 23:56-65.

Schmidt, Gemot. 1973. "Die iranischen Worter für "Tochter' und "Vater' und die Reflexe des interkonsonantischen H (2) in den idg. Sprachen." Zeitschrift für vergleschende Sprachforschung 87:36–83.

Szemerényi, Oswald. 1970. Einführung in die vergleichende Sprachwissenschaft. Darmstadt: Wissenschaftliche Buchgesellschaft.

. 1996. Introduction to Indo-European Languistics. Oxford: Oxford University Press.

Vine, Brent. 1999. "Greek hisa 'root' and 'schwa secundum'." In UCLA Indo-European
Studus 1, ed. Vyacheslav V. Ivanov and Brent Vine, 5-30. Los Angeles: UCLA
Program in Indo-European Studies.

A Note on TS 2.4.12.2-6*

GEORGE CARDONA

The legend involving Indra and V_Itra was transmitted in various contexts from the Rgreeda onwards. One of these concerns Tvasty's misaccentuation of indraintred when, in an effort to have an offering he made in the disavanitya fire grow up as the destroyer of Indra, Ivasty said (TS) switchendriaturur arathkarus (MS rubichendriaturur arathkarus) uttering a buburvibi compound with high pitch on its first syllable (indraidarus) instead of a taspurusus compound with high pitch on its final syllable (indraidarus), instead of a taspurusus compound with high pitch on its final syllable (indraidarus), instead of a taspurusus compound with high pitch on its final syllable (indraidarus), instead of a taspurusus compound with high pitch on its final syllable (indraidarus), has a consequence, although Tvasty wished to create a destroyer of Indra, what he brought about was Vtra whose destroyer would be Indrai.

Parallel texts of this story appear in the Maitrayanisamhita and the Taittiriyasamhita.

MS 2.4.2

(a) so á imále sárvále svoyale páry átayat i tatmád vá indví bibbet tatmád te tvástábibbet i távjednémé práttim aicchae i tatm ama i máry átelent tatmát trátta dejám astitute. (b) ságo vad si nými akt i tam akma i myhakchat i távmat trátta dejám astitute. (b) ságo vad si nými akt i tam váváma málakhad alta va tatvá vínjar smyd depakahat i b "mupěl vána dhjádna ú hárivyán yéndym jadám til ad tredhátmánat ví vy aldostatbibajavydovárda doibad syyán trýtym antárku trítym ápi trítyma ho (c) až vád agyán trýtym áts tehu váryma súd ayacchad várymánstábiaj ví a várjman údyátan dytrvábábet ví vínávál dati vá idata vádantnantav brýnán i tat te prádakyámi i má mě vadlyři iší tad vá ama prohyachet i tat výnych práty ápránda dább má til ida vínáve ví právyachet i tad výnych práty ápránda amako vádri nátrýmá dábhat va amán vývý maghávánah sacantam lambkom samn blása (ks. 14.1) (li ší ví) ví vé datí vádvámannatáv výrým ití si vád antarkíke přítym dát tehu vájma údyacchad vínyvánusthita) i si vájran údyatna dryvábíbáte? vá várvátel latí vá dáda vývávána právný váprán tit si tír vád váma vývávává právna vývávy vývývány tat tit si vád váma vývávává várvá várvá várvá várvá várvá várvá várvá vádakatymi!

[&]quot;Stephanic Jamison is admired for her interpretation of Vedic texts, combining contextual and grammatical analysis. I am happy to be able to honor her accomplishments with a small study in this yein.

¹MS 2.4.3. that/naythningsi sitryum icitirsqui ¹ indrium anyu itirsium abange. The texts as recred exhibit segmental and supra-segmental sandhu effects across sentences, so that I use a superscript danda (¹⁰) to undicate sentence divasions, but dangdas (¹⁰) for verse divasions. I also do not indicate different varieties of superiar syllables and anumnium.

George Cardona A Note on TS 2.4.12.2-6

vínnar ti prályachat 1 dal vínyah práty Agribudi gundor hatra indriyán daldhitv gunda náyò maghávánah sacantam 1 gundham santra sisuh 11 ti (C) ið ved ástr vávásminnantár vryðan ti 1 i 4 vid djir trívhyam dist téng várjam sid dyachad vánrahustárithj 1 sá vájram údyátan dysváhíbhet 1 ið brávíði dasi vá iddan tyásminngutár víryðar - tát te prálakyánni - má má vadhib 1 sandhán ny sún daldhíváhahai yátha tróm goá prá vídánti 1 við varajól 1 ván mánn prá vísih kim me tátih vygd tít 1 ið bravið 1 rokm evéndibya 1 táng bhógðaya tvám prá víseyam tið 1 tád vá ásman prályachat tát práty agribnáð trú mádhá tít (f) táð vánú traidháttayvál saháragi vá ásmai tát prátyágribnáð trú mádhá tít (f) táð vánú traidháttayvál saháragi vá ásmai tát prátyáselngd (egab sámáni yújámi; lydd vá dán kiñeg tát traidhatayvál táð ápnoti paísín er vá

TS 2.4.12.2-6

(a) sa 1mãl lokān àvrnod | yad imãl lokān àvrnot tad vṛtrasyà vṛtṛtvan | tasmād indrò 'bibhed api tvastā | tasmai tvastā vajrām asiñcat | (b) tapo vai sa vajrā āsīt | tam udyantun nāśaknod i athg vai tarbi visnūr gnyā devatāsīt i sõ 'bravīd i visngv ehīdam ā hàrisvāvo venāvam idam iti | sa visnus tredhātmānað vi ny àdhatta pythivyān tytīyam antarikse tytīyan divi tytīyam | abhiparyāvartād dhy abībhed | (c) yat pythivyan tytlyam dsit tenendro vajram ud ayacchad visnyanusthitah 1 sò 'bravīn' mā me pra bār asti vā idam mayì viryàn tat te pra dāsyāmīti tad àsmai prāyàcchat tat praty àgṛhnād adhā meti tad visngve 'ti prāyàcchat tad visnuh praty àgrhnād gsmāsv indrà indriyan dàdhātv iti (TS 1.3.6.1) (d) yad antarikse tṛtiyam āsīt tenendro vajram ud àyacchad viṣṇvànusthitah i sò bravīn i mā me pra hār asti va idam mayi vēryan tat te pra dāsyāmīti tad asmai prāyacchat tat praty agybnād dvir mādhā iti i tad visnave 'ti prāyacchat i tad visnuh praty agybnād asmāsv indrā indrīvan dādhātv iti 1 (c) vad divī trtīvam āsīt tenendro vairam ud àyacchad visnyànusthitah | sò 'brayīn ' mã me pra hār | yenāham idam asmi tat te pra dăsyāmīti tvīz ity abravīt sandhān tu san dadhāvahas ' tvām eva pra visānīti yan mām prà vyseh kim mà bhuñjyā ity àbravīt tvām evendhiya tava bhogàya tvām pra viseyam ity àbravīt taš vetrah prāvisad | udaraš vai vetrah | ksut khaly vai mànysyàsyg bhrātývyo ya gvað vedg hanti ksudham bhrātývyan tad àsmas prāyàcchat tat praty àgrhnād trir mādhā iti | tad visnave 'ti prāyàcchat | tad visnych praty àgrhnâd gsmäsv ındrà indriyan dàdhātv iti (f) yat trih prāyàcchat trih pratyagihnā tat tridhātòs tridhātutvaÿ | yad visnur gnv atisthata visnave 'ti prāyacchgt tasmād aindrāvaisnavam havir bhavati yad vā idan kiñca tad asmai tat prāvācchad reah sāmāns vaņūmsi sahasra v vā asmai tat prāvācchat tasmāt sahasràdaksinam

Despite differences in wording and some differences in content, especially at the end of the recounting, it is evident that the two versions closely parallel each other.

(a) Vītra grew to cover a huge expanse, so that both Indra and Tvastṛ feared him. Tvastṛ created a weapon, the vajna, for Indra, and sprinkled it to give it magic power

(b) The wip'ns was comparable to ascetic ardor; hence Indra could not lift it. He called on Vignu to assist him, so that they might acquire the power in Vtra whereby he enveloped all. Vignu then divided himself into three parts, out of fear of being surrounded by Vtra. He placed one third each on earth, in the space between heaven and earth, and in heaven.

(c)—(c)—(c) Assisted by the part of Vispu on earth, in the interspace, and in heaven, Indra lafts the sujra three cimes. Each time, V_trea is afraid and asks Indra not to strike him down, offering to give him a power (siynum) that is within him. The first and second times, he gives the power to Indra, who accepts it and then passes it on to Vispu, because he had supported him. Vispu accepts, recting a mantar (MS 1.4.15, TS 1.3.6.1). The third time, Indra accepts the offer, but then V_trra asks that they make an agreement under which he would enter Indra. He then entered Indra¹ and gave him the power, which Indra accepted and once more passed on to Vispu.)

(6) Finally, the texts bring out the association with the ritual—called trallatus, trividintawant, trainfantays—in the context of which the legend is recounted. Vtra gave his power three times to Indra, who accepted it three times and passed it on to Vispus, saying he had supported him three times, and the offering dedicated to Indra and Vispus has three constitutent elements, two cakes of rice with a cake of barley between them, with four postherds each containing a group of three such cakes. Vtra gave to Indra that power which is the source of all that constitutes the world of the Vedas, in the form of re, thinkin, and ynjus—cantamount to a thousand varieties—so that the fee paid to the priests amounts on a thousand.

Given the general parallelism of the texts in question, one expects that sandshhan nu sah addiniavahai yating tosim evo pro visidniti i 30 travito i yan manu pro visidn timbo yada di i 30 travito i manu evendishya i ravu bingahya nam pro visioyam tii i ("Et us make a pact, so that I may enter you. He [Indra] said, 'If you should enter me, what would I get from that? He [Vrra] said, 'I would light you up, I would enter you for your enjoyment.") in (e) of the Mainriyanisambită and sandshau tsan daddhawhai; traw was providentsi 'vau manu priv visio kum nab bhusingi iry abrave; traw evendishy

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³For the moment, I pass over the Tauturiya phrase yan mām prā vṣớn hīm mã bhườygh and its parallel in the Mautrāṇanī text. See below

[&]quot;The Tauttrijn version includes a parenthetical remark—prompted by ning biographs name pra varygam "I would enter you so that you could enjoy (food)"—that hunger is the enemy of man and one who knows that Vftra-entered Indica thereby destroys hunger and his enemy.

^{4°}TS __4(12.7) art rolp projections to the procupations that traditation traditation. TSB II 18,810-2, year trapid. demapting implement retrieval to the processing transmissional tran

tava błogáya trám pra vléyam iry abravut ¹ in (e) of the Taititivyatambinā should also be comparable in content. Accordingly, yan mām prā việk kim mà bhườṇyāḥ should mean, "If you entered me, would you (then) helo me?"

Commentators on the Täititriyasanhitä, on the other hand, consider that biny of binhityäh in kun må binniyäh is used in the sense 'consume, eat': kim män innivija man ena binhityäh kim män ena binktuna arabhase (TSB III.1331.7-34-11) "After entering me ... will you begin to consume me alone (and not food)?" and yadi twan män praviéh tada kim män ena binktyase (TSS III.134-18) "If you enter me, will you then consume me alone?" Under this interpretation, Bhaṭpabhākara and Sāyaṇa need to supply a transition between this question and Vṛtra's reply, telling Indra that he should not think this way, that he would not eat him; on the contrary, he would light up Indra by dint of being his gastric fire: athan yrpha hanvati mainsim mantavyam twim eva indibiya dipayeyam ... (TSB II.1324-11-2), nato yrpra indram abravit nahimi vaim binktye kim tu rwam indibiya udardgriipätanena prakkitayyam dipayeyam (TSS II.134-19).

In addition, the active bhuhjith does not conform to the usual morphology of bhuj meaning 'consume, enjoy'. Used in this sense, the verb regularly takes middle endings in texts from earliest Vedic onwards (see Cardona 1987:6), and the Taittiriyasanhhita agrees with this pattern, as can be seen in the following passages.

- (1) 3.5.2.6-7: idbning'd varia's rynai mayyera statobhayhan bhunajadling isg i tad gaur dhingt taunda gaur igtobhayhan bhunajadling isg i tad gaur dhingt taunda gaur igtobhayhan bhunajadling isg i san gaur yar payp i "She [the cow] said, 'I would choose a reward; you all should consume both (those nourishments) that are in me alone.' The cow fetched that (splendor). Accordingly [taunda' thence'], one consumes both (ghee and milk) which are in a cow. Veril, ya fee is Aqu'is splendor, milk Soma's."
- (2) 5.2.8.7-8: audismbaram bharagi) 'ürgi vä idumbara i 'ürjüm grüvü runddin i madiyata iya dadhati i madiyata grämği ürjün dadhati i nadiyata grämği ürjün dadhati i nadiyata grija bhirijata i "(The mortar) is made of udumbara wood. The udumbara is strength He (thus) acquires strength. He places (the udumbara mortar) in the middle (of the altar). He puts strength in (its) very middle. Accordingiy, one enjoys nourishment in the middle. No
- (3) 6.1.3.3-4: Sirg vai śarā ¹ yac chāramayī mekhālā bhanayī sirjām gravā runddhr ¹ madhyataḥ san nāhyasī madhyata qismā sirjān dadhāti ¹ tasmān madhyata sirjā bhisāpate ¹ "The reeds are strength. In that the gordle is made of reeds, he acquires that very strength. He girds (the yajāmāna) in the middle. He (thus) places strength in his very middle. Accordingly, one enjoys nourishment in the middle."

niddle. Accordingly, one enjoys nourishment in the middle.⁷⁷

Once he enters Indra. Virtra serves as the pastric fire, consuming enemies in the form of hunger. It is

(4) 6.1.4.1: audiambouro blowgy: siry ni kidambaru larjam exanà rundide, mukhrug sammino blanati: mukhata enuma urjan dadinati: tamin mukhata sirja bhinjute "(The staff) is made of udambaru wood. The udambaru is truly strength/nourishment. He (thus) acquires strength/nourishment (The staff) is of the same height as the mouth. He places strength/nourishment just in his mouth. Accordingly, one takes nourishment in the mouth."

(5) 6.2.5.4: yad anya madhyandine madhyardire vratam bhavaix madhyato vā annina bhanjata madhyata ent at irjām dhata; "In that he takes food" at midday or in the middle of the night—one does indeed enjoy food in the middle—thereby he establishes strength for himself in the middle."

(6) 6.2.10.6-7: udargi vai sada: 'ärgi idajanbara' i madhyata audimbarim minoti madhyata eva prajianam urjan dadhati! Isamahn madhyata @rjā bhishjate: "The shed is verily the belly, udambara strength. He sets up the post made of udambara wood in the middle. He thus establishes strength in the middle of creatures. Accordingly, one takes nourishment in the middle."

(7) 6.3.4-5: nābbidaghne pāri vyayati ¹ nābbidagha evāmā ūrjān dadbātī ¹ tarmān nābbidaghna ūrjā bbihājāta ¹ "He wraps (the yūpa pole) at navel height. He (thereby) puts food for him [the yajamāna] just at navel height. Accordingly, one enjoys food at the height of one's navel."¹¹

(8) 6.5.2.3; pyrastàd ykthasyàvanīya ity àhuḥ | pyrastàd dhy Ayùso bhynkte | màdhygto

ment: madiyata era iarramadiya eva latmas urjam annam balasi vā dadhān sthapvanī lyad vā madiyamakyim ansatihyam. To Sāyana (TSS L.1244-16-7) iay agnifes the essence of tood and bhuy near 'hold'. aya ya yamānaya iarramadiye rasan shalpayası latmas arave 'yi madiya siryam bhusiyas nama dabrayanstiy arthab.

Bhartabhiakara (TSB IV.1.36.1t-2) interprets siry as denoting food (anna) throughout this passage, paraphrases finit bluthaux with insuena blutharband interational ("carry out the act of eating by means of food"), and notes that this is equivalent to annual bluthaux ("carry out the act of eating by means of food"), bluthaux blutharbands interpretaments annual bluthaux in

*In the preceding passage (TS 6.1-5.3-3) the different nourishments an initiate takes according to vows are specified: sour gruel (nongos) for a kastrya, boiled milk mixed with ghee (Amidsat) for a variya, milk (Answi) for a bribmana.

⁵⁰ Phipaphikidara (TSB IV.1.199.4-6) interprets madipatals as referring to the mod-stage of life and paraphrases amount blumpate with amount askin administely problemation blumpate ("with food—ext a lost of meet a mosuch") and signs admire with amount midopout ("establishes food") and symmetry instead any mediponisties mediyorister resisten blumta trained medipout mediposite require supras amount asks anderstad problemation blumpate mediyorister resisten blumta trained mediposite mediposites ("special CSI 5.113.6-0") explains that one consistention of the mouth and holds it in the belly, medicineardily insupra bisposites understandily as delationarily with the authoristics and administrate mediateries with visites the structure of waters the retirement of the statement of the structure of the statement of the sta

"According to Bhattabhaskara (TSB IV.1.166.32-23), madiryata prjå bibiñjate conveys that creatures are most content in the middle of their life span tasmät madiryatah madiryame www. ärjä bininjate binivithena subhtai bihavatti.

"That is, the stormach Bhatpathiskara (TSB PL-197-16-20) explains that the poset places food for the symmetra in the arcs of the enomach, nor higher and not lower, this explains the people set froot that is tocared at the height of their stormach art annuar mathridaghne analysis measurement around a symmetric production maps after symmetric production that findings have granted intelligent annual symmetric symmetric production and part of the symmetric production. The symmetric production symmetric production and part of the symmetric production. The symmetric symmetric production of the symmetric production of the symmetric production symmetric production. The symmetric production symmetric production of the symmetric production of the symmetric production of the symmetric production symmetric production. The symmetric production is a symmetric production of the symmetric production symmetric production of the symmetric production symmetric production of the symmetric production of the symmetric production symmetric production symmetric production of the symmetric production of the symmetric production symmetric

thus understandable that commentators associate bhuitpub with consuming.

**Madiputath can be understood to refer to the middle of one's life, when one consumes most food and enonys most strength, or to the middle of the body, where nourishment is held. Bhaṭṭabhaskura (TSB III.a.ao) Lunderstands both senses here madifyamen mysis abhamadhre ni See nu. 8, 11.

⁷According to Bhatṭtabhāskara (TSB IV 1 28 12-3) úrṛ denotes either food or strength and mudhṛu signifies either the middle of the body or the mid-stage of life, he interprets the instrumental as one of accompani-

Georae Cardona A Note on TS 2.4.12.2-6

'vantya ity àbur madhyamena hy āyùso bhunkta | ùttarārdhè 'vantya ity àbur | uttamena by ayuso bhunkte (Some) say, (The soma from the dbruva cup) should be poured (into the hotycamasa vessel) at the fore-part13 of the uktha; for one eats at the beginning of one's life.' (Some) say, 'It should be poured at the mid part: for one eats in the middle of one's life.' (Some) say, 'It should be poured during the last part; for one eats during the last part of one's life." "14

In (1)-(8), the middle forms bhunajadhvas (2pl. subj.), bhunjate (3pl. ind.) are used, construed with instrumental forms (ubhayena, ūrjā) referring to what one consumes and enjoys.

In the following examples, the active forms bhunakti, bhunktah signify helping, They are construed with instrumentals designating means used to help, and bhunktah is construed with an accusative referring to an individual who is helped

(9) TS 2.6.2.3; yasyai yiryèna pürvärdhenànadyan bhunakti jaahanärdhenà dhenuh "... by the power of which15 an ox helps with its fore-part, a cow with its hind-part, "16 (10) TS 2.6.2.4: purastàllaksmā puronuvākyā bhavati | tasmāt pūrvārdhenānadvān

bhùnakty | upariställaksmä yäjyä | tasmäj jaghanärdhenà dhenur | ya evañ vedà bhunkta enam etau. "The pre-offering verse is marked at the front;17 accordingly, an ox helps with its forepart. The offertory verse is marked at its later part;18 accordingly, a cow (helps) with its hind-part. These two help him who knows thus."19

That is, during the recitation of the first third of the triparrite while feature.

In TS 2.4.12.6, the active form bhuñiyāb is construed with the accusative mà just as in (10) TS 2.6.2.4 bhunktah is construed with the accusative mam.

Textual parallelism and grammar thus combine to demonstrate that kim mà bhuñjyāh in TS 2.4.12 means "Would you help me?"

Abbreviations

MS = Maitrāyanīsambitā

RV = Raveda

TBr. = Taittiriyabrāhmana

TS = Tattirvasamhitā

TSB = Bhattabhāskara's commentary on the Tauttsrēyasamhitā. See Sonatakke and Dharmadhikari 1970-2010.

TSS = Sāyana's commencary on the Taittirīyasamhitā. See Sonatakke and Dharmadhikari 1970-2010.

References

- Cardona, George. 1987. "On Sanskrit bhundhti 'aids, serves, protects'." In Festschrift for Henry Hoeniaswald on the Occasion of His Seventieth Birthday, ed. George Cardona and Norman H. Zide, 65-72, Tubingen: Narr.
- Sonatakke, N.S., and T.N. Dharmadhikari. 1970-2010. Taittirīya Sambitā with the Padapātha and the Commentaries of Bhatta Bhāskara Miśra and Sayanācārya. Poona: Vaidika Saméodhana Mandala.

34 35

[&]quot;Commentators understand this to refer to different kinds of eating: during the first part of one's life, one eats frequently, whenever one wishes, during the middle part, one eats a great deal; and during the last part one is not capable of eating much though one wishes to eat. TSB IV.1.200.20-201.16: äysish purvabhåge hi svairam bhunkte purusah | tasmåd äysisambandhäya purastād enšvanavanam kuryāt | madiryatah madhye (astrasyavanetavyah . ayusah madhyame in bhage prabinitan puruso bhunkte | uttarandhe fastrasyávnetavyah . . . uttame in áyusah bháge íraddadhánah bhunkte. TSS L1.562.26-8; uktham fastram tac ca tradkā vibhaysa purnabhāgs (asyamāne 'vanayet | evam itarayor api | āyusab pārnabhāgs bālye bahukytvo bhujyate | madhyame bhāge bahvannam bhujyate | uttame bhāge śaktyabhāre 'pı bahu bhoktum scchatı. In the last stage. Savana savs, "even though one lacks the capacity, one wishes to eat a lot," By inaddadhano binniète "eats/enrovs while confiding," Bhattabhāskara may mean that, though one lacks the capacity to eat much, one has the confidence that it is enough to carry one through.

[&]quot;Here and in the preceding sentences, yasyasi refers to the śakwari, made up of seven pådas, combining the three gavatri pacas ganst murdha divah kakut patih prihipmi amam | apam retamo timpati (TS 1.5.5.1 = TBr. 3.5 7 I, RV 8.44.16) and the four tristubh padas blown agricultural canata nata natra myudhinh sacase (inabhih) dyn mŷrdhânàn dadhus sugrsân yboam àgne cakrse havygrâhàm || (TS 4.4.4.1 = TBr, 3.5.7.1, RV 10.8.6).

¹⁶ That is, an ox helps with its shoulders, with which it draws a plow or a cart, and a cow helps with its udders. Bhattabhāskara (TSB II 490.10-1; anadvān rāhanādanā pūrrārilhena pravāh bhunakti raksati | dhenuh ksīrusravanādinā jaghanārdhena prajāh bhunakti) and Sāyana (TSS II.490.19-21: kiñca tudījenu virjena balsvardo längalatakata-vähinä skandharüpena svaminum pälayati dhemis ca kisrupradäneno-dhasaparabhägena

maminam pālayats) respectively gloss bhunakis with misats, pālayats ('guards, protects, keeps')

¹⁷ The gavatri verse in question (see n. 14) has name, the deliv's name, at the front, The desty name same occurs in the last pada of the tristubh verse in question (see n. 16)

¹⁹ Bhartabhaskara (TSB II.1.491 17: evamveditaram etau anadvān dhemo' on bunktah yathāyatham

sattraksatah) and Savana (TSS II.1.492.19-6; etarrobhavarea reditärnm etau dhenvanadvähau svasvooaharena pilayatah) gloss bhunktah respectively with withinathan samrabatah 'protect precisely as appropriate' and massopakarena palayatab 'take care through their respective help'. See p. 16.

Proto-Indo-Iranian *striHand PIE *sór-'female, woman'

GEORGE DUNKEL

1. The earliest known adumbration of a PIE *win* 'female; woman' was Pott's proposal of a historical relation between Ved. stn¹- 'woman' and the second syllables of PIE *systèm* 'sister' and of I at. swor 'wife' (1833:9, 126, 145; 1835:554). Since the epenthesis *s·n > -sn* known from Goth. swissar and OCS sestms is absent from Old Indic.' Pott employed the still popular approach of pushing the problem back into the proto-language, additively reconstructing* a PIE *system* and taking *system* as an inner-PIE reduction thereof. But since PIE *ss* otherwise remains intact' and *ssn-unceplaned by this approach, it has generally been rijected. *Kim's attempted reabilitiation (2005:133) leaves unmentioned the counterexamples presented by the roots *status*. 'blunder', *srip. 'fail', and the frequency of unepenthesized -sr-internally.

Sturtevant (1949), energized by the Hittite feminines in .dism= and the Cappadocian gynonyms in .disr,' resuscitated Pott's connection of PIE *sw= and Ved. strf- without the epenthesis. He hypothesized (after Trost 1938:197) a PIE feminine *sr-f- 'female', continued in his opinion by the Greek theonym 'Piā, 'Perg, which he saw as remade from the expected "Rhiā". He understood Ved. strf- to be the result of a contamination or blend of this *sr-f- female' with the feminine agent-suffix. srf-. His interpretation has been accepted by Benveniste (1969:1.215) and Willi (2010:247) but rejected by Pinault (2012:24).

Sturtevant's **rri- was meant as a feminization of PIE **ofr 'female; woman' (by his time solidly reconstructable, see \$5) by means of the feminine-marking suffix **sib-*_- Since **ofr- was already feminine, the Proto-Indo-European extension **sr-foj-would have been a hypercharacterization, specifically a hyperfeminization. Pleonasm or redundancy is a deep-seated and ever-recurring process in human language. From the semantic field of interest at present can be cited Lat. **iantirecis* 'husband's brother's wives' and **matrix* 'female for breeding', both hypercharacterizations of the already feminine **stems preserved by Gk. **eivárvo*, Ved. **váry* and Lat. **matri*, respectively. Differently hypercharacterized is Hindi **matri* 'mother', as if from PIE **webstab.**

a. Ved. strf- cannot be a root-noun like dtsf- thought' because it inflects like desfoutside the nominative and accusative. Therefore strf- (and PIIr. *strfH-, *strf-, see n. 1) is a derived form, whether primary or secondary.

Of all the feminine derivatives in 4- (a very large group; the *Rymala alone artests on the state of the stat

This process resulted in all the oblique forms of sirf, whether with synchronically vocalic or consonantal endings, also being disyllabic. It is to match this feature that the expected Proto-Indo-Iranian accusatives "sirfm and "sirf of the derd-inflection were replaced by "sirfm and "sirfic (cf. YAv. sirid"), as in the root-nouns. The Drang nach Zueuslingheit conversely also explains the non-vocalization in rátnysis. The following Reyechic forms are all disyllabic (the middle column contains all the attested oblique singular -thr-cases):

^{&#}x27;As well as from Old Iranian, whose YAv. 891- (8×) allows a PHr *8974, *897H- to be reconstructed. Unacceptable are the pseudo-phonetics of Trost 1938-198. —I thank Michael Weiss for many helpful suggestions.

^aOn this procedure see LIPP 1 50.

^{*}CF PIE *8p.tn-*tsa* in YAv nitrua-, Gk. āorņa (NIL 348), PIE *sterhj- 'strew' in Gk. orņarde, Lat stritus, PIE *gb'ts-tr-o- 'of yesterday' > Lat hesternus, Go. gustru-dagus 'tomorrow', PIE *esu-tro- > ON útr 'omentum' (se.

⁴So explicitly Mayrhofer 1952.36 and 1955 118 (no longer mentioned in Mayrhofer 1976;522–3 and 1996 703). Eichner 1974 43 II. 45 (without discussion), Sihler 1977-43; Normer 1980:44-7; Ledo-Lemos 2002 104, 14. 127-4. Pinauli 2012 424. Elandsrom 2014-49.

On these see now Hoffner and Melchert 2008 59 and Zehnder 2010

Nowhere else in Greek was a feminine nominative in *-sa replaced by one in * sa, despite the oblique stem in *-sas (ἐταίρα - ἐτάρη are alternative feminines to ἔταρος). Here 'Péa will not be further considered.

[&]quot;The objections of Sihler 1977"44, Pinault 2012:242 and Hardarson 2014 49 n. 70 fail to appreciate ubiquity of redundancy in human language, which, unlike human "logic," places a low priority on minimalism (see LIPP 1):

⁸This serves as the example because no oblique cases of deverbal tri-stems are attested in the Regreda

^{*}Exchner's discussion (1974:33-4) makes no mention of this fundamental factor

rấtryās 1.94.70 striyás rátrvám 10.68.11c strivám astryam 'in the oven' 10,165,3b acc. sg. rátrim strivam for *strim10 acc. pl. nátris strivas for *stris*1

- a. As to the root and suffix(cs) of Ved. strf- and PIIr. *strfH-, *strf-, scholarship quadrifurcates. According to Debrunner and Wackernagel 1930:181-2 a Proto-Indo-Iranian root-noun *star- (shades of Pott!) was feminized by *-ib2-; for Mayrhofer 1952 an extension "str-eq- of Pokorny's root 4. "ster- line, strip, stripe' (1959:1028) was feminized by *-h2-; Eichner (1974:37) starts from a feminine adjective *stéri-h2- 'sriff'. These three ideas are formally unobjectionable, but the postulated semantic developments are dubious. Debrunner and Wackernagel (1930:181-2) ignore the question of meaning entirely. Mayrhofer suggests 'line, strip, stripe' > 'mark' > 'furrow' > 'vulva', then pars pro toto. Eichner (1974) is admittedly unable to get from 'stiff' to 'infertile';12 his suggested further development 'infertile' > 'virgin' > 'woman' is strained at best.13
- 4. The fourth approach sees here not just (with Sturtevant) the influence of the Proto-Indo-Iranian feminine agentive suffix-conglomerate *-tr-f-, but its actual presence.14 Before *-tr-i- the full-grade of the root is regular in earliest Vedic and Avestan," but Greek attests zero-grades like δμήτειρα 'subduer' beside πανδαμάτωρ 'all-subduing' < *demasor; this suggests an originally holokinetic paradigm from which all the attested ablaut-variants can be derived. Still, even the heretofore proposed zero-grades *zw-'squeeze; give birth',16 *sh₁- 'sow',17 *sh*- 'follow',18 or *h₁s- 'exist'19 must somehow be

10 The acc. sg. ssrfm reappears from the YV on and plural stric from the SB (Eichner 1974:35), back-formed to the nominative YAy, strim may continue an earlier "striim" or also have been re-created: given the acc

'In Vedic, strivar was also used as norm pl., like nitrit; its Avestan equivalent is unarrested.

"This step is in fact not at all necessary, given that homonymy is a normal feature of human language (see "See further Normer 1980:44-5. A rejection of Eichner's unification of strf- 'woman' and starf- 'infertile

cow' (so Kim 2005:126-7, 132; Eichner's analysis is not even mentioned by Pinault 2012 or Hardarson 2014) would in no way invalidate the accent-ablaut framework there espoused. *So Debrunner 1954.416, 674 (differently Debrunner and Wackernagel 1930;181-2) and the authors cited

in nn. 16-9, implicitly also Tichy 1995:43 (only the lack of a suitable base-root prevents adopting this analysis)

"On the secondary nature of e.g. Ved. jatri- 'jámtri-' (AVS 20.48.2) and YAv. yaetar- 'yoker' see Tichy 1995 41 5

16 Pott 1833 126; Pisani 1954'242-3, Szemerényi 1964-398-9, all presuming syncope of an initial syllable. "Schmidt 1881 20. Normer 1080:45-7

18Thieme 1972 27 = Kl. Sehr. 2.1213

pl. strsio, it is unlikely to be an archaism.

reduced to just *r-. Phonologically the most rigorous solution is doubtless Normier's application of G. Schmidt's law of laryngeal loss in four-consonant clusters, applied to an agent-noun from *seh- 'sow', thus *shtr- > *str- like *phtr- > *ptr- (1980.46). Pisani's semantic objection (1954:242) that a woman functions as the receptacle, not the sower or seed-"thrower" (*seb₁mnes seb₁tor-), is perhaps too biologically conceived; all over the world peasant agriculture reckons with the labor of all family-members, including women, 20 Still, sowing seeds was hardly a major characteristic of women as a class.

In sum, no known verbal root has found general acceptance as the derivational basis of PIIr. *strf-; its continuants are not mentioned anywhere in Pokorny's Indoaermanisches eytmologisches Worterbuch.

5. To Pott's two comparanda for a PIE *sór- 'female; woman' have been successively added the feminines *tis(0)r- 'three' and *k"etes(0)r- 'four' continued in Proto-Indo-Iranian and Celtic (Brugmann 1876:393-4), then YAv. hāirišī- 'female' (Güntert 1923), then the Anatolian sex-markers, Hitt. 18ha-18ara- 'mistress' and hassu-lara-'queen' (Lohmann 1936:201-2) and Common Luv. *nana-sri- 'sister' and *hasu-sri-'queen' (Friedrich 1955 on CLuv.; now known from HLuv. as well). Szemerényi (1967: 216-7) brought CLuv. asr- 'woman' and Gk. sap 'wife, lover' into the discussion and in 1977:37-9 he added YAv. ånhairs- 'woman'. In the same year Sihler discerned an earlier "sr-i- 'woman' behind the defeminine Proto-Germanic agent-suffix *-stri+(6)n-(ModE spinster).44 And Willi (2010:245-51) has adduced the Greek divine name "Hoā < *seria, seeing it as originally having meant 'relating to women, having to do with womanly concerns' > 'goddess of women', a vrddhi-formation to *ser-o- 'womanly', with a neo-e-grade due to secondary ablaut.

The turn of the century has let loose a veritable flood of studies of PIE *sór- 'female' and its continuants, to which I refer for discussion and bibliography: Ledo-Lemos 2002:104-46 (bafflingly unaware of Eichner 1974), Kim 2005:25-31, NIL 2008:681-3, Willi 2010, Pinault 2012, and Hardarson 2014.

6. As to the precise preform and its inflection, Szemerényi's insistence on the ablautparallelism of his *esōr/osr 'female' with *uedōr/uodr 'water' (1977:37) leads to a dead end, since the oblique stem of such a neuter should by all rights have been "esn- or

¹⁹ A derivation from this root is asserted by Uhlenbeck (1898;345) without the slightest explanation. Due to the then-current derivation of Lat erus and PHr. "distrin- 'divine; lord' from "he-, an earlier meaning 'mistress, lady' might have been assumed; but this is disrupted by the companions with Hitt. illus-"lord"

and ballse-'king' respectively (see EWA 1.147-8 and on "brow-'give birth', LIV" 269). It is also difficult to reconcile Vedic suf- 'the true, the good wife' with the distinctly perorative aspect of Ved, stri- (Kazzazi

³⁰ In fact, the Germans had all the farm-work carried out by the women, children, and aged, so that they themselves could be free to loaf, drink, and brawl (Tac., Ger. 14-5); on the hassle-free nature of pastoralism as a life-style see Schrader-Nehring 2017, 286b (who adds sleeping to the manly activities)

[&]quot;On defeminine derivation see LIPP 153-4. Sihler (1977) takes Low West Germanic *-stri-in- and pre-Gothic *-strin- [branistes 'grasshopper' (fem.) from *trans strin-) as nasal enlargements of PGmc *stri < PIE *ori . Unaware of Sturtevant's *ori- and of the Luvian comparanda. Sibler sees the *ihypercharacterization as just Proto-Germanic (1977:45).

*@ss-, for which there is no evidence. For practical purposes Szemerényi often used a preform *esor-, whuch is however incompatible with his inanimate *esor/sor/s-1* A holobi-netca animate *esor/sor/s-1* and Melchert in Kim 2005;131 n. 20, *s while this is rejected in favor of the Neogrammarians' animate root-noun *sleft), *ss/s-ps, gen. *s-s-f by e.g. Willi (2010), Pinault (2012), and Hardurson (2014). For our purposes either preform will serve; but partisans of *ss/s-must account for the pre-fricatival vowel of PIE **Petesor-, CLIV. ss/s-, and YAV. shapsir's.

The medial vowel of the numeral is explicable either way if it is presumed that the earliest form for 'four' was *k*et. Then *k*et-sow- can be either a compound like *systor or reduced from a congruent phrase *k*ets sixes 'four women' (implicit in Finault 2012;245). But straightforward internal reconstruction suggests a third path.**
that an original **k*etspe-sow- has been successively dissimilated to PIE *k*etsow-. With
the recressive *relissimilation of. Pre-PIE *s*m*press * *s*inse.

As to the initial vowel of CLuv. abr(i)- and YAv. åŋbairf-, Szemerényi (1967:218) at first proposed *pt.br 'bcloved' to *ans- 'well disposed, favorable', ²⁸ but had by 1977:37 shifted to *suor-. The initial vowel, however, cannot have been a lengthened-grade *ē, as this would have given Luv f (Melchert 1994:241, 265).

Since PIE. *ah, gives Luv. a, Hardasson (2014;39-41, 47) adduces the Proto-Indo-European preverb formerly known as *a* fo, toward*, which he derives *nach einhelliger Meinung* from an instrumental *ah, byho, 'thus' (on 48 he calls it a locative—who cares, it's only a particle!). But, as the occasional disyllabicity of this preverb's continuant in the *Rgrada* shows, its Proto-Indo-European form was in fact *bho-ho (LIPP 2,346-7)—which is incompatible with Luv. as-

Since PIE * θ_h also gives Luv. 4. (Mckhert 1904a:245, 265), the exclamatory particle * θ_h 'so' comes to mind. Thus sentence particle, not the preverb, like $\theta < *\theta_h$ a faded modal adverb of anaphone * θ_h e, commonly occurred before vocatives and has been suspected in Luvian sentence-initial θ - (LIPP 3.08=13). The Latm interpections θ_h by the gods!, 'fastor etc. are univerbations with exclamatory $\theta < *\theta_h$ similar to the delocutive and hypostasized Vedic θ_h does 'devout' < *(one who says) "Hey, gods!"; and to Lat. θ_h f from PIE * θ_h θ_h digitally the same way the vocative of an e-grade * θ_h * θ_h and then hypostasized, this time might have been univerbated with exclamatory * θ_h \$ and then hypostasized, this time

with fading of the particle: *θh, sor-ih₂-Q > *dsor* 'Hey female!' > pre-Lav. *dsar*, *σ pre-Av. *dsbr*- 'female'. A comparable process might underhe PIE *g*chi*- 'woman' if it were a hypostatic back- formation to the vocative *g*pl*lia*, Θ' O' No woman', this is turn continuing a univerbated sentence *g*chh₂-Q h_{el}-Q 'Woman, comel', with *h₂ coloring *e over the word-boundary and as it seems over *h, as well; cf. Gk. γιναιν < *g*r*ehb, h_{el}-k *Woman, come here! (LITP 2.3ct).

7. Although the agent-noun suffix ***zi/m* normally follows verbal roots and stems, in the dialects there are numerous cases where the agent-noun suffix could be interpreted synchronically as an endocentric hypercharacterization of an agentive root noun. For example, Lat. rizor 'ruler' \(\to regio' \) Tule' could have appeared to be an extended form of rize 'king'. Similarly, autor 'leader' \(\to diab'' \) Header' we king' leader' \(\to diab'' \) Header' leader' (\to k. \) \(\to \) \(\to \) similarly since \(\to \) \(\to \)

8. Sihler's (1977) comparison of Proto-Germanic *-1074+(0)n-(of which none of the authors mentioned at the end of §1 is aware) together with Common Luv. *-37- tailse hypercharacterizzed *09-69-(6) from a hypothesis to a reconstruction; to this Avestan adds the o-grade *30-40-1. To this evidence for hyper-feminizations of *201/37- by means of *-40-1 propose to add an Early PIIr. *371-f. This would have become Late PIIr. *374-f. through haplology, above all in polysyllabic case-forms like the genitive *374-f. This *374-f.

Although often relegated to the so-called minor change mechanisms, haplology can be considered a variety of "regular" sound change in that counterexamples are scarce (Hoenigswald 1964;210-1). Nor is haplology seldom in Sanskrit; in fact the very name is a product of Vedic philology (Bloomfield 1893, 1896, 1917). As here,

²²Szemerényi grudgingly concedes a late Proto-Indo-European metanalysis of his *me-se-on-*isster* (1607.121+132).

(1607.121+132).

"If this contains the same animate agent-suffix *-on- of PIE *h_{ib}-dn-\(\frac{1}{2}\), 'man', *me-h_i-dn-\(\frac{1}{2}\) "companion', Lat.

comes, Russ. sputnuk' (to "h_tet-'go") > 'mother' (LIPP 2.498 n. 21), perhaps "dans-ér- 'daughter's husband' (see the next note), etc., what is the root? Hardly "h_tes- 'exist', see n. 19.

^{*}A fourth is the older analysis as a root noun from *tuerH- 'grip, contain', preceded by i. * (i)h**e metanalyzed from the preceding *trefie 'three', see LIPP 2.690 n. 5

As a parallel for his suggested parallel second element "wor" 'man, male' Mennger (1904:172) could have cited PIE "das-uér" 'hisband's brother'

²⁷As in Gk. προσηγής 'friendly', Go. neuss, NHG Guest 'favor', see Pokorny 1959-47; also in Hitt. nillu good' according to Pulvel (Wations and Melchert perfer "hydrau-1982 and ind 1994b:102) PHr. "niuma-'dvince, lord' could continue this root or "hyen-" teve burth" (in. 10).

[™]The syncope to *am- is cross-linguismally typical of vocatives, but the initial &- is doubly problematic shortening is limited to unscented syllables in Luivan, and all accentred initial vowels were lengthered (Wichhert psyassacio). This is not addressed by Hardwaron (2004-44). Pinall (1004-427) supposes *am- for the angle purpose of caplaning shri- and proposes three different mechanisms for this innovation. However, the same double problem bedevits Luivan sentence-initial a which, whether it continues exclamation *fish, or not (LIPP 2-axio) n. 9), can hardly have been unscentred. Note Lat default by the god Pollarit *bestde fit!

FSee Fraenkel 1910:9, 11, 1912:22-3. Cf. also the notorious nonce-formation ἐθελοντής 'vo.unteer'
28 Implied by réstré 'queen, female king' (Tichy 1997:288, 341).

^{**}Here an intermediate masculine **inf-ior* is unnecessary, although such a form could have usefully indicated the manly female (butch) or the womanly male (drag queen).

haplology normally deletes the first of two identical or similar syllables. ³⁰ The suppression of successive syllables containing π^{**} differs from the regressive τ^{*} dissimilation in the feminine "**firmers or PIE "*firmers and the double dissimilation in "**firmers" > PIE "*firmers" (\$6). The dissimilatory loss of an initial syllable recurs in Vod. trad-triple stanza' < "*rr-rad- and perhaps in you gen. loc. du. 'of/in which two' for yoyos. ¹² If you shows that Vodic haplology could lead to a monosyllable, then this process need not have been jumined to the obligue cases of "*torf.

In the end PIIr *strf- would indeed be a derivative of PIE *sfr- over an intermediare *sr-#j₂-, as Post suggested inchoately; however not by means of epenthesis, but of hypercharacterization followed by haplology.

9. Can "vin" 'female; woman' be related to a verbal root? Not that this is necessary at all; "vin" could be an adjectival root without verbal derivatives like "big-fe." sharp," at all; "vin" could be an adjectival root without verbal derivatives like "big-fe." sharp," sim-"old." But if one insists on such a connection, there is no shortage of possibilities: the Proto-Indo-European sound-sequence "vin" serves as roots meaning "flow", observe", 'join', as well as adjectival 'reddish', and 'hook' (CMP' (Okorny 1959:900-12) and as a particle meaning 'above' (CMP' 2540-4) has repeatedly been proposed as a basis for "vin", namely by Meringer (1904.) "Pokorny (1959:91)", and most recently by Will (2010-233), who interprets "vin" as "the female who is attached/who attaches herself to a male, i.e. the man's partner". But as we have seen, the primary meaning of "vin" was not 'partner, wife', but rather the biological 'female', not necessarith 'human'.

Emmerick (1966:22) noted GAv. htms. 'care, attention' as a possible basis of the neutre abstract "háriú- and pointed out that in Vid. 1,18-9 the háriú!" s require harrohm-'care, attention'. He proposed the root har- 'observe, watch, protect' as the basis of háriú!" Based on Emmerick's plausible semantics, I suggest seeing PIE 'wir-/w- 'female' as a root-noun from the root "ser- 'observe, watch, protect' (IEW 910, LIV's 344, to be added to LIPP 2.683). "s/s- 'female' would denote neither the partner nor the birth-giver, but the protective guardian, the overseer of the family and home, a role by no means limited to females who are already capable of reproduction.

Compound presents like YAv. ni har-'observe, protect, Lyd. harare-'keep guard', Myc. o-pi...o-ro-me-no 'warching over', Od. 14-104 in... hoperat 'watch, guard', and Lat. observat 'observe carefully' imply that the activity of PE' 5-re-'observe, watch, protect' was performed from a height. If this verbal root is indeed departiculative from PIE *shr' over, above 'in origin, then the evidence for this local adverb would no loope to restricted to Greek and Anatolian (LIPP 2-688-a).

Abbreviations

- EWA = Mayrhofer, Manfred. 1986-2001. Etymologisches Wörterbuch des Altindischen. Heidelbers: Winter.
- LIPP = Dunkel, George. 2014. Lexikon der indogermanischen Partikeln und Pronominalstamme. 2 vols. Heidelberg: Winter.
- LIV² = Kummel, Martin and Helmut Rix, eds. 2001. Lexikon der indagermanischen Verben: Die Wurzeln und ihre Primärstammbildungen. 2nd ed. Wiesbaden: Reichert.
- NIL = Wodrko, Dagmar S., Britta Irslinger, and Carolin Schneider, eds. 2008. Noming im indepartments of the Lexibor. Heidelberg: Winter.
- Schrader-Nehring = Schrader, O. 1917. Reallexikon der indogermanischen Altertumshunde. Vol. 1. 2nd ed. rev. by A. Nehring, Berlin: de Gruyter.
- Thieme, Kl. Schr. = Thieme, Paul. 1984-95. Klesne Schriften. 2 vols. Wiesbaden: Steiner.

References

- Benveniste, Émile. 1969. Le vocabulaire des institutions indo-europlennes. Paris: Minutt. Bloomfield, Maurice. 1893. "On the hap. leg. rujānā, RV 1.32.6, with a note on haplology." Proceedings of the American Oriental Society 16:xxxii-xxxix.
- 1896. "Contributions to the interpretation of the Veda: Seventh series." American Journal of Philology 17:399–440.
- ——. 1917. "Some cruces in Vedic text, grammar, and interpretation." American Journal of Philology 38:1–18.
- Brugmann, Karl. 1876. "Zur Geschichte der stammabstufenden Deklinationen." Studien zur griechischen und lateinischen Grammatik 9:361–406.
- 1897. Vergleichende Laut-, Stammbildungs- und Flexionslehre der indogermansschen Sprachen. Vol. 1. Berlin: de Gruyter.
- Debrunner, A[Ibert]. 1954. Altindische Grammatik. Vol. 2, part 2, Die Nominalsuffixe. Göttingen: Vandenhoek & Ruprecht.
- Debrunner, Albert, and Jakob Wackernagel. 1930. Altendische Grammatik. Vol. 3, Nominalflexion. Zahlwort. Pronomen. Göttingen: Vandenhock & Ruprecht.

PSee for Vedic Wackernagel 1896.378-80 with the Nachtrage and Brugmann 1897 857-60. Pinault (2007:23) proposes a similar dissimilation of an *-18-ternative of a contrastive/locatival advierb *7x-tet* among the females*; but the adverbial ending *-14r never otherwise occurs after a nominal stem (LIPP 1180-1).

^μCf Lat, n\u00e4trix 'nutrse' < *n\u00e4tri-tr\u00e4x (differently Leumann 1977:377). But matrix 'female for breeding' is not haplologized but rather a contamination of m\u00e4tri with n\u00e4rr\u00e4x</p>

[&]quot;As opposed to the presumably restored niyas (14×), nis occurs only in the problematic 10.105 за йра уй йидтаю рабраза "Apart from which two Indra stays stock-still." Differently Oldenberg 1912 325, note міслічні п

[&]quot;The sound-sequences "ser and "ser do not occur among the Proto Indo European endings or suffixes (on Hittite sijar, edinal see Hoffner and Melchert 2008 (8).

[&]quot;Who reasoned that the -nr- of "tieres" so deathch auf den geschlechtlichen Akt hinweist" because it referred to secondary wives in a state of polygamy

³⁷This was accepted by Szemecényi (1977-35), but Octtinger (1986-121-2) points out that the connection is only indirect if one has a child with a girl [lauxin], but affords her no care (nifit laux/drivin lauxin), then that affects all fernales, two and four legged (visigh lauxin) inhimount injustriannala hidlaum pairitannala).

^{*}Rather than that the protection consisted in '(holding the hand) over' (so Oettinger 2000 187)

- Eichner, Heiner. 1974. "Zu Etymologie und Flexion von vedisch strf und púmän." Die Spruche 20:26–42.
- Emmerick, Ronald. 1966. "Some reinterpretations in the Avesta." Transactions of the Philological Society 1966:1-23.
- Fraenkel, Eduard. 1910–2. Zur Geschichte der Nomina Agentis im Griechischen. 2 vols. Strassburg: Trubner.
- Friedrich, Johannes. 1955. "Zu einigen luwischen Wörtern." Lingua Pasnaniensis 5:1-4.
 Guntert, Hermann. 1933. "Concerning some words of the Avesta." In Oriental Studies in Honor of Curietji Erachji Parry, 130-1. London: Oxford University Press.
- Harðarson, Jón Axel. 2014. "Das andere Wort für 'Frau' im Urindogermanischen." In Studies on the Collective and Feminine in Indo-European from a Diachronic and Topological Perspecsive, ed. Sergio Neri and Roland Schumann, 23–55. Leiden: Brill.
- Hoenigswald, Henry. 1964. "Graduality, sporadicity and the minor sound change processes." Phonetics 11:202-15.
- Hoffmann, Karl, and Bernhard Forssman. 1996. Arestische Laut- und Flexionslehre. Innsbruck: Institut f
 ür Sprachwissenschaft der Universit
 ät Innsbruck.
- Hoffner, Harry A., Jr., and H. Craig Melchert. 2008. A Grammar of the Hittite Language. Winona Lake: Eisenbrauns. Kazzazi, Kerstin. 2001. "Mann" und "Frau" im Raveda, Innsbruck: Institut für Spra-
- Kazzazi, Kerstin. 2001. "Mann" und "Frau" im Rgreda. Innsbruck: Institut f
 ür Sprachen und Literaturen der Universit
 ät Innsbruck.
- Kim, Ronald I. 2005. "Ossetic sile/syl and the Indo-Iranian word for 'female'." International Journal of Diachronic Linguistics and Linguistic Reconstruction 2:123–68.
- Ledo-Lemos, Francisco. 2002. La palabra "mujer" en indoeuropeo. Munich: Lincom Europa.
- Lohmann, Johannes. 1936. Review of Edgar H. Sturtevant, A Comparative Grammar of the Hittite Language (Philadelphia: Linguistic Society of America, 1933). Indogernastiche Forschmann. 48:284–95.
- Mayrhofer, Manfred. 1952. "Gibt es ein idg. *sor- 'Frau'?" In Studun zur indogermanischen Grundsprache, ed. Wilhelm Brandenstein, 32–9. Vienna: Gerold.
- 1955. "Zu ai. xrf 'Weib'." Zeitschrift für vergleichende Sprachforschung 72:118-20.
 1976. Kurzgefasstes erymologisches Wörterbuch des Altindischen. Vol. 2. Heidelberg: Winter.
- Melchert, H. Craig. 1994a. Anatolian Historical Phonology. Amsterdam: Rodopi.
- 1994b. "'Cop's Law' in Common Anatolian." In In honorem Holger Pedersen, ed. Jens Elmegård Rasmussen, 297–306. Wiesbaden: Reichert.
- Meringer, Rudolf. 1904. "Wörter und Sachen." Indogermanische Ferschungen 16:101– 96.
- Normuer, Rudolf. 1980. "Nochmals zu *100". Indagermanische Förschungen 85:43-80.
 Oettinger, Norbert. 1986. "Avestisch hairis-"Frau' syn- und diachron." Indagermanische Förschungen 01:116-28.
- ---- . 2000: "Hethitisch ser 'auf'." In The Asia Minor Connexion: Studies on the Pre-

- Greek Languages in Memory of Charles Carter, ed. Yoel Arbeitman, 185 8. Leuven-
- Oldenberg, Hermann. 1912. Rgveda: Textkritische und exegetische Noten. Vol. 2 Berlin-Weidmann.
- Pinault, Georges-Jean. 2007. "A star is born: A 'new' PIE *-ter- suffix". In Verba Do-centi: Studies in Historical and Indo-European Lunguistics Presented to Jay H. Jasanoff by Students, Collaegues, and Friends, ed. Alan J. Nussbaum, 271–9. Ann Arbor: Becch Stave.
- 2.072. "The lady (almost) vanishes". In Multi Nominu Grammaticus: A Fessioriff in Honor of Alan J. Nussbaum, ed. Adam I. Cooper, Jeremy Rau, and Michael Weiss, 240–14. Ann Arbor: Beech Save.
- Pisani, Vittore. 1954. "Sanskrit strf." Zeutschrift für vergleichende Sprachforschung 71: 241-3.
- Pokorny, Julius. 1959. Indogermanisches etymologisches Wörterbuch. Vol. 1. Bern: Francke.
- Pott, August. 1833-5. Etymologische Forschungen. 2 vols. Lemgo: Meyer'scher Hof.
- Schmidt, Johannes. 1881. "Zwei arische a-laute und die Palatalen." Zeitschrift für vergleichende Sprachforschung 25:1-178.
- Sihler, Andrew. 1977. "The PIE origins of the Germanic feminine nomina agentis in *-strifon." Die Sprache 21:36–47.
- Sturtevant, Edgar H. 1949. "An Indo-European word for 'woman'." Language 25: 343-5.
- Szernerényi, Oswald. 1964. Syncope in Greek and Indo-European and the Nature of Indo-European Accent. Naples: Istituto universitario orientale di Napoli.
- -----. 1967. "The alleged IE *sor- 'woman'." Kratylos 11:206-21. [= Selected Writings 1.107-22.]
- 1977. Studies in the Kinship Terminology of the Indo-European Languages: With Special Reference to Indian, Iranian, Greek, and Latin. Leiden: Brill.
- Tichy, Eva. 1995. Die Nomina Agentis auf -tar- im Vedischen. Heidelberg: Winter.
- Thieme, Paul. 1972. [Lückenbüsser] Zeitschrift für vergleichende Sprachforschung 86:27. Trost, Paul. 1938. "Ai. aw. strī 'Weib'." Indogermanische Forschungen 57:197-8.
- Uhlenbeck, C. 1898. Kurzgefässtes etymologisches Worterbuch des Altindischen. Amsterdam: Müller.
- Wackernagel, Jakob. 1896. Altindssche Grammatik. Vol 1, Lautlehre. Gottingen: Vandenhoeck & Ruprecht.
- Watkins, Calvert. 1982. "Notes on the plural formations of the Hittite neuter." In Investigationes pholologicae et comparaturae: Gedenkschrift für Heinz Kronasser, ed. Erich Neu. 250–62. Wiesbaden: Harrassowitz.
- Willi, Andreas. 2010. "Hera, Eros, Iuno Sororia." Indogermanische Forschungen 115:34-
- Zehnder, Thomas. 2010. Die hethstischen Frauennamen. Wiesbaden: Harrassowitz.

The Blood of Vṛṭra May Be All Around Us

TAMES I SITZGERALD

Though Stephanie Iamison is one of the premier Indo-Iranian linguists and Vedicists of our times, her interests and expertise are not limited to these important and fundamental fields. She has ranged forward in time and in genre, to dharma@stra the Mahābhārata, and kāvya, calling attention to words, phrases, and themes that echo from the Vedas to the classical poets, often by way of the Mahābhārata, and all to good effect. Of her many outstanding contributions to our knowledge, two of the most intriguing are her analysis of the survival of Indra-Vrtra battle themes in Kalidasa's narration of Siva's blasting to ashes the body of the God of Love in Sarga Three of his epic poem Kumärasambhava (Tamison 1996) and her investigation into some of the textual dynamics of the Sanskritic tradition by way of one of the food laws of dharmasastra - the inclusion of the rhinoceros in the list of the "five five-nailed" animals that may be eaten (Jamison 1998). My modest contribution to this bouquet joins both these topics of Stephanie's earlier work, as it focuses upon a food proscribed for brahmins because it arose from the blood shed by Vrtra when Indra killed him, according to one late Mahabharata account of that event. But this proscribed food is called khukhunda, a word that must be described as a whisper that almost faded away rather than an echo from Indo-Iranian times. On the other hand, even if the word was not clearly heard in the Sanskritic tradition, what it likely refers to is spectacular and memorable!

I The Asura and Vrtra segments of Book 12 of the Mahābhārata

It would be a very large understatement to say that the tradition that became the Mahābhārata was deeply fascinated with the narrative of Indra's defeat of Vtra: the Mahabhārata includes a number of narrative recasts of that theme, and the theme provides basic structural and rhetorical elements that inform the whole of the central Mahabhārata narrative. One of many interesting uses and developments of the theme occurs in two sets of texts found in Book Twelve of the Mahābhārata, the Śānts Pur-1989. These six texts senally depict Virta and three of his Indra-defeated Asura counterparts—Parhada, Bali, and Namuci as humble savants who espouse the ideas and artitudes of the molegulbarma, each having learned from his defeat that all one enjoys and suffers in life is only temporary. Indra plays a role in all the episodes that present the wisdom of these Asuras—sometimes being depicted as a bully, pointedly lacking the understanding and virtues of the Asuras he has defeated—and the Goddess Sri plays a role in several of them too, personifying the Riches of Sovereignty who ostentatiously moves from king to king depending upon his devotion to Righteousness (dharma).²

The one text among these six that actually focuses upon Vftra, the "Vftraghta" (1a.270-1), is followed immediately by a late recasting of the killing of Vftra, the "Vftravalha" (1a.272-3). The pair of texts presents a number of highly developed ideas that become commonplace in the later strata of the epic and in the punishas. The first chapter of the "Vftraghta", "Vftra's dying conversation with his prices Kaya Usansa, runs closely parallel to the savant Asuar texts mentioned just above and is certainly the "song," ghā, referred to in this text's label. But the text then moves into related philosophical avenues and quickly turns into a long sermon by Sanatkumāra (a's on born directly from the mind of the Creator God Brahmā and a voice of Brahmā's wisdom) that gives a monistic Vaisņava account of the universe and includes a long description of the (very real) ups and downs of souls on their way to everlasting proximity to Visqu by way of yoga practice. Upon hearing this sermon Vftra professe his conversion to Visqu, takes up yoga to effect the necessary self-transformation, and dies and joins Visqu in his heaven. Like the five earlier savant Asura texts, Vftra's thoughts are expressed here in explicit recollection of his earlier defeat by Indra.

The ensuing text that is labeled "Vrtravadha" ("The Slaving of Vrtra") is explicitly

¹For banc treatments see Hopkins 1915 129–32, Hiltebentel 1976 141 296, and Vassilkov 2002. Vassilkov comes to the theme by way of a discussion of the metaphors of the Kanna Parman of the Mahahihimtan which focuses upon the mortal encounter of Arjuna, son of Indra, and Karna, son of the Sun, who is identified with Virtu in that encounter

See MBH 1.215, "The Conversation between India and the Auru Pathrida"; 1.216-8, "The Conversation among India, the Aura Bdis, and the Goddens Sir"; 1.219, "The Conversation between India and the Aura King Naminci"; 1.230, "The Second Conversation between India and the Aura King Bdis"; 1.231, "The Conversation between India and the Goddens Sir"; and 12.70-1, "The Song of the Aura Virra". The last is the only once of these presentations of Aura widom that uses Virra and it precedes a many cipic account of how India slew him 12.725-3, "The Slaying of the Aura Virra". (MBB) 1.99, 5.9-10, and 1.41) are the three other many accounts of this event in the epic; 1.239, 17-4; memonib nebrily India's bliling of Virra [198-27D], while retelling in prose the complex surrounding narrative related in the fablat of 5.9-18 NB When criting prose passages of the Machidentair Isloid when the convention of John D Smith's electronic text in using capital Roman letters—A, B, C, etc.—as labels for the sub-unic components of the text's unin-numbers, when the property of the convention of the property of the convention of the convention of 1991 and 1991 and 1991.

[&]quot;The forty-third and forty-fourth rests of the Mehadhamma collectron—two of the younger certs anthologued in it. Of the 200 stanzas (with 490 fines) making up these two texts, thurty two stanzas in the first of them are, with just a few exceptions, classical supadir transfels. The forty fifth text, 12.274, "The Origin of Feore," is a lend of cods to the "Vytravidin" (see below, with n. 6). It explains in detail the origins of the fever Siva sear into Verta and recase Nativit's death and union with Vistus (12.276,59-4).

^{*}This account includes an interesting theory of souls' having six colors 12 271 33-47, the first half of the classical prestubble passage. The theory is anticipated at 270.9-10.

linked, in the framing narrative of the Moksadharma collection,5 to the preceding "Vrtragītā." A puzzled Yudhısthira wants to know, "How was such a pious devotee of Visnu killed by Indra?" As the earlier focus upon Visnu and now this question signify, this account of Indra's slaying of Vrtra takes for granted the highly developed theological notion of a natural order of all things that has developed from a single material cause (a primordial matrix, a prakets, that develops regularly and mechanistically [svabhävena]) and is ultimately energized by and subject to the control of a Supreme Lord, Wearn, the one everlasting God-conceived of by some to be Visnu (a.k.a. Nārāyaṇa, Hari, Kṛṣṇa) and by others to be Siva (a.k.a. Rudra, Hara, Bhava, etc.). While the zealous partisans of these two Gods at times advocated rival claims to unique supremacy of one or the other of them, the two texts here gently negotiate this rivalry by making use of the old, well-known theme of Indra's slaying of Vrtra. With Vrtra's schooling in the theology of Visnu and becoming a devotee (bhakta) of Vișnu depicted in the first text, the "Vrtragītā," the second text of the pair swings to the other theological pole: it turns upon Indra's need for the power of Siva in order to defeat Vrtra. The second text demonstrates the insufficiency of the aid customarily furnished to Indra (according to earlier accounts) by other Vedic Gods, by Brhaspati, Vasistha, and the brahmin seers collectively, and even by Visnu. In the account here, Indra, even though assisted in all the ways earlier reported, was able to kill Vrtra only after Brhaspati had sought Siva's help and Siva then sent some of his topas into Vrtra, which affected Vrtra as an extreme, debilitating fever.6

Further themes represented in this account are V₁tra's Brahminic piety (he is called dharmabhrtām; varah, "the most excellent of the supporters of Right Action," at 12.272.18 and 274.16), which develops into his devotion to Visnu;" his mastery of him-

self through the cultivation of yoga-control⁸ and, reciprocally, his powers to exercise purposeful control (yoga as well) over other beings and the elements like a great lord-master, an Eiwara or mahayogin (Vtra is called mahāyogin at 274-57); and his "cosmic magnificence" (he is gigantic [272.7–9], encompasses everything, is omnipresent, and possessess many powers of magic [maha]).

The second of the two chapters making up the "Vṛtravadha" devotes much space to the story of an anthropomorphic form of "beahmicide" (mahmahan)d) emerging from Vṛtra's body as a gruesome, blood-soaked wirch and pursuing Indra, who hid himself in a lotus stalk. She eventually caught him trying to leave the lotus and latched onto him so tightly that he could not get her off. Indra went to Brahmä's celestial ourt with her hanging onto him, but Brahmä persuaded her to relent and accept temporary residence in four different loci: in Flire, in vegetation, in the Apsarases, and in the waters. Each of these entities agreed to accept brahmicide for a limited time, and Brahmā stipulated a distinct act of impiery toward each that would occasion the transfer of the sun of brahmucide to the offender.

2 Vrtra's blood is still with us

This account of Indra's killing of Vyrac concludes by noting that after he was relieved of the sin of brahmicide, Indra purified himself by performing a Horse Sacrifice. But between that concluding fact and Bhīṣma's formal commendation of Indra's heroic example to King Yudhiṣṭhira, there are two stanzas permanently connecting this account of brahmicide to the life and status of brahmins, MBh 12.273.58-9. The first one, however, presents a puzzle:

vrtrsya rudhirác caiva khukhundáh pärtha 1gapire / dvijátibhir abhukyas te dikitasi ca tapadhnnaih // 58 sarvávastham tvam apy esäm dvijátinám priyam kuru / ime bi bhútale deváh prathitáh kurunandana // 9

Khukhundas were born of Vrtra's blood; these are not to be eaten by brahmins, nor by asceries who have been consecrated. [88] In every circumstance you must do what is pleasing to these brahmins, for they are Gods spread out across the face of the earth, O scion of the Kurus. [19]

[&]quot;The reluctant new king Yudhisthira questioning the dying patriarch of the receding era, Bhīṣma, on various aspects of dharma.

[&]quot;The text following the "Vyravadha" is the "Origin of Fever" (12.74), which is likewise devoted to the againsticence of Sinn. Ever was born as gorostoque mandrin from a bead of perspiration that fell from Survis forthead as he angoly pursued the flecing form of the sacrifice of Dakas. Siva was engaged in destrowing Dakas is starting because the general persons of the Victor and do not direct any of the sacrification direnges to him. The manulan Fever—an endurang form of Siva's anger—harassed the Gods until they agreed to allow. Siva a starter of the trail offerings. The highly troublesome measilon was then dissolded irino many different manifestations of the trail offerings. The highly troublesome measilon was then dissolded irino many different manifestations of the start offerings and the signal of the start of

[&]quot;As earlier his older brother, and in some ways earlier embodiment, Trafirar Visionings ("There-Headed" Hydring, or Tsking, All Forms, or Consisting of All Visible, or Physical, Things, or Robels, or Whose Own Self or Body Is Everything," etc.) was depicted as a pious brahmin ascence at MBb 3 p.dff. and Lisu 11-x. While essentially correct, Maccionell (1897):609 put the matter too biddly when he wrote, "In the Mahabbarata (5, 2xf [soc²) pdf must be meant, Punc and Bombay chapter numbers are adenned lovel) the three-headed ion of Fivati; and Viren are adenned. The accounts of Tvastr's orening Virta to average the death of Trifacts Viviantipa (in MBb 3 p.40-64 as Hazzya-179) do seem to occasion a broughgining trainfer of Trainer's traits to this new brother, Virta This trainfer seems to have been especially important whit regard to Virta's being understood as a brahmin rificial art Ts_1s.is as a puriodist of the Gods, s.c. a brahmin. Virta was explicitly regarded as a brahmin too, given that brindmahapte emerged directly from Virta's body at a 2xf 3.00 and at 3 pa 34h in broinformatile as feefered to a dismithibidism. Th

prior killing of Trisiras is part of the narratives of 5.9ff, and 12.329 but is not mentioned at all in the two texts under discussion here.

^{*}Controlling oneself and focusing one's mind on critically important realities such as the Self, God, or the universal elements by "harnessing" the difficult-to-control senses and mind

At 12,22,3,6 Sive rells Indra that Vyrra "Encompasses all within humself, gone everywhere, is funed as the possessor of great mage, prover," (rentstens arrangia on hadmany six a marshal). Verra's "Engenees" here was inherered. It echoes Tvagri's being, in the Rymin, the universal arisan, himself minmige, a deny 'of all forms', or 'all fittings', and is sometimeg emphasized with Tvagri's elder son Tristics Visvaripa Taking this art from Tristics as well as the price, Vyrra is dejected in the first three Manhishmant spondars agrowing larger and larger, and even swallowing Indra for a time: sec 3,994,15 9,44-7, so, and to 1ff. He too is called marrangia at 3 (20.1).

Something edible known as a binkhinnich resulted from the blood shed by the brahmin Vtrta as he died and is forbidden to brahmins and Brahminically commissioned
ascetics as food. What might these binkhinnich sel? The word binkhinnich is not found
in any modern Western dictionaries of Sanskrit, a consequence, in part, of being unknown in the extant native lexicographical tradition: in fact, the word is not found in
any known dictionaries old or new. 10 It has completely escaped modern scholarly attention up to now, for it has been recovered from obscurity only by the critical edition
of Pune. The vulgate text of our Mahabhhinntan passage reads, in place of binkhinnich,
rather tibhandsh, a word known to the native lexicographical tradition, and so to us, as
signifying 'creat, hair-tuft, plume; peacock's tail." We shall see that binkhinnich was,
forcunately, known to the Mahabhhinnich somementators Arjunamisfa of Bengal (late
13th cent. [Ghosh 1934-5;708]) and Vidyäsigara of Gos (latter half of the 14th cent.
[Belvalkar 1961-6, Introduction:Cits]) 11 and we shall see that the word dibhanda may
have been a synonym for or a translation of it.

Before moving to the recovered kinskinsnyläh, let us look at the vulgate's substitution, sikhanyläh. Unusually for the texts of the Mahkibhantan's Śańsi Parvan, Nilakantha has almost nothing to say about anything in chapter 12.273. Earlier translators who were based on the vulgate—Mohan Gangui (1884–96) and the team of Paul Deussen and Otto Strauss (1906;108) —did their best with sikhanyläh. Ganguli took the word as a metonym for crested birds such as peacocks, some quail, and other fowl, and this was accepted by E. Washburn Hookins:

From the blood of Vritra, O son of Pritha, were born high-crested cocks.

For this reason, those fowls are unclean as food for the regenerate classes, and those ascetics that have undergone the rite of initiation.¹⁶

Unwilling to follow Ganguli's interpretation, Deussen and Strauss merely transcribe the word, suggesting that it may be a plant:

Aus dem Blute des Vritra, O Prithâsohn, entstanden die Cikhanda's, von

geweihten und askesereichen Brahmanen durfen sie nicht gegessen werden.

Deussen and Strauss offer the following note for "Cikhanda's".

Nach P. W. [= Böhtlingk and Roth 1855-7); "Petersburger Worterbuch"]
"wohl eine bestimmte Pflamez"; Nilakaṇṭha, Çabdakalpadruma und Vācasparyam geben keine Hilfe; "hgjb-rested ooks" P. C. Ray [= Ganguli
1884-061: "Hajhoe" Jacobi."

If it were necessary to choose now between interpretations of plant or animal, on the basis of this reading, I would decide in favor of plants: it seems intrinsically more likely that some kind of plant would be thought to arise from drops of blood than some kind of plant would be thought to arise from drops of blood than some kind of plant would be thought to arise from drops of blood that one kind of bird, though it cannot be ruled out that the author might have been thinking of the latter. The spray of blood is a kind of rain (particularly if from a gi-gantic celestial demon), and nor only is the association of rain and plants obvious to casual observation but, as is well known, it was a major theme of philosophical and religious discussion in Brahminic texts from early times. "Though the account he of the billing of Vtra is relatively late—it is basically a Purainci text with highly developed themes of theology and yoga—and would thus seem to rule out any need for proscribing flesh," we cannot say on this basis that the vulgate \$\tilde{th}\$ bhands here cannot refer to peacooks and similar birds. For—and this is a major collateral point of Stephanie's discussion of the inclusion of the rhunoceros in the lists of "five-nailed" animals acceptable as food—this proscription might have been formulated much earlier than the text in which it appears.

But we need not decide the question whether sikhanda should be understood as a bird or a plant in isolation. There is a better reading, bhukhunda, and the overlap in meaning of the two readings is helpful. Although the vulgate's sikhandah is a variant attested by a good number of the thirty-five manuscript witnesses available for 12.273²⁶ (nine mss.. with two others sivine the closely related sikhandah), it is, in spite

¹⁰ The commentator Vidylsiggra offered an apparent quotation from a traditional lexicon he identifies as "Madhumati," but I find no mention of it in Vogel 1979. Vidylsisgara's entire comment reads (as quoted by Belvulkar in the apparatus to MBh 12.273,58): kinkbiundikh mapirish—mapiaro metakah kundah binkbiundikh midikar in the apparatus to MBh 12.273,58): kinkbiundikh mapirish—mapiaro metakah kundah binkbiundikh

[&]quot;The word sikhanda seems clearly to be related to sikha 'crest, top-knot of hair, etc.'. And of course a common Sanskitt word for neacock is sikhandar. literally 'possessed of a sikhandar'.

¹¹The citations of Arjunamisra and Vidyāsagara are taken from the quotations of manuscripts of their commentaries provided in the critical apparatus, ad loc., by the editor of the Saute Parsan, S. K. Belvalkar.

^{&#}x27;Chapter 12.282 in the Citrasala Press edition of the text (Kinjawadekar 1929-31) Nīlakagiha makes only one passing comment on one verse and their a general comment on the entire chapter. *presimentalism suddiatarthroply any particulablehado indiatota a bleavastry adispiraturationers** The point of this chapter is that the killing of those who know the brainnam -even by Indra --braigs misery beyond bounds (upon the killer), is accused (this demise."

[&]quot;The chapter number in this edution is also 12,282 (cited from Ganguli 1884-06:2310).

[&]quot;The chapter number in this edition is 12,282.

¹⁶ MBh (vulgate) 12. 282.60 (Ganguh 1884-96;3,310), see Hopkins 1015;331

[&]quot;It should be noted that the suggestion "some particular plant" of Böhtlingk and Roth (1855-75) is based solely on this passage from the vulgate Mahābbānata.

[&]quot;It is also worth observing that by calling attention to showers of Vrtra's blood, the text transforms the commonplace theme of the showers of nourishing rain brought by Indra, particularly by his slaving of Vrtra.

[&]quot;Especially in light of 273,13—a, which takes the secrificial procurption of animal victums for granted. This passage condemns in an obloque findsom the making of Vodes carefices with such offerings. The Creator Brahms pareclaed quarters of the authropomorphized an of brahmscode first to Fire, the conveyor of the rural offerings of humans to the Gods. In the case of each of the four assignments of brahmscode (to Fire, plants, Aparases, and the waters), Brahms supulated that the sin would eventually transfer from each of these four repositions to people who acted broward the recipient entity in some offersave way Mahahibamsa 273,13—a specifies the offeries in the case of Fire in this way." Brahmsa and Sobud sometime when you are blazing fready to receive scarfickal offerings I aman approach you and, as the is covered over with Darkness, or offers scarficke with seeds, or plants, or bugst Iqu. I must upon making an offering with animal fields), [3] then Behminn-Killing here will go directly to him and live in him, O bearer of scarficial offerings to the Gods [121]"

²⁰ Of the thirty-six witnesses used throughout the Molsadharmaparvan, G, is unavailable for 12, 273

of the difficulty with its interpretation, the easiest reading of all available alternatives, the lecto ficulture. But instead of sibanadah Belvalkar elected bhukbradah for the constituted text, and that choice seems clearly to be the right reading. It is attested by even more of the thirty-five witnesses (13) and receives support from many others. ²⁴ Furthermore, bhukbradah is clearly a more difficult reading than the recognizable word sibkanadah. However, bhukbradah for sin fact turn out to be a word known to some ancient scholars and one that is meaningfully construable in context (see below). Also, it is not as difficult a reading as the other variants available: the weakly carested bhukbradah (S. h.), and bhushradah (S. h.), hardaganadah (S. h.), which is also a recognizable word (budbuda means 'bubble') but with no record of being used to refer to anything edible.

As mentioned, Arjunamiśn and Vidyāsāgara, at opposite ends of the subcontinent, did both know the word, and they provide us with the clues we need to arrive at reasonably likely identification of these bhukhundah, for which sibbandah is plausibly a synonym or a translation. A Arjunamiśra glosses khukhundah, as bahisthachutrikah, (sic), which would seem to refer to a plant or animal with a small, cuternal ecrest. This gloss of khukhunda could well describe a fibhandae na small crest sticking out of the top of some plant or animal—and suggests that the two words are at least roughly synonymous. Vidyāsāgara's gloss, mayirnah, keeps us on the same ground, for mayirna is a common word for peacock. But more interestingly, according to Bohitningk and Roth (1855—75), who base their understanding upon traditional native lexica, mayirna also signifies the plant Colosia cristata, "crested" eclosia, "burming cockscomb," and perhaps some of the similar vancties of closia.

The plant Celosia cristata fits the sentence of 273,58 very well: it is an edible plant found in India that may often look like blood splattered on the ground A genus the cosmopolitan family of Amaranthaceac, celosia occurs all across Africa and Asia and is widely found in the New World today as well, where it has vanous ornamental, edible, and medicinal uses. It has brilliantly colored flowers that are red, pink, orange, and yellow and that may appear in spikes, plumes, or crests, depending upon the variety, with the flowerhead positioned, sometimes, on top of a stalk. 37 Unfortunately, it is not possible to include in this contribution photographs that can demonstrate the builtiantly crimson floral crests that were likely the basis of identifying red-flowering celosia as originating from drops of Vṛtra's blood. There are, however, many spectacular photographs of Celosia cristatas and its close cousins easily available on the internet, and I list here some their utils as they were in mid-2014.

The photograph at http://en.academic.ru/dic.nsf/enwiki/816139 shows a large, brilliant flowerhead atop a stalk, with a smaller one nearby depicting the stalk more clearly and suggesting the origin of Arjunamis'a's babisthacharakah gloss. The larger flowerhead in this photograph shows the "bizarre convoluted ndges ... [that] look a little like velvery brains, cauliflower heads or roosters' combs" mentioned in the Floridata.com description given above in n. 26. A similarly brilliant image of two flowerheads that resemble cockscombs is available at http://courses.nres.illinois.edu/hort343 /Cockscomb,%2oCrested%2oCelosia.htm; another dramatic crest can be seen at http://en.wikipedia.org/wiki/File:Red_Cockscomb_flowers.JPG; and for another brilliant red flowerhead on a long stalk see www.missouriobants.com.

As already noted, the flowerheads occur in other colors besides red, such as this rilliant yellow sibling of the red image cited first above: http://en.wikipedia.org/wiki riPile:Celosia_cristrataII.PG. The yellow celosia did not inspire the identification with Vtra's blood, but in a moment I will point to a mélange of red and yellow plumes that could do so.

It is not merely crests atop stalks and the brilliance of the individual red crests upon which this identification rests. The website http://www.public.asu.edu/~camartin plants/Plants/2ohtml%2ofiles/Celosiai.pjg shows the species C. spicata, in which many smaller spikes form the crests. The image suggests parches of such closely

[&]quot;Support comes from three other mss. that read" "bb" as the initial consonant and seven that have "w" as the first vowel (but only one of these ten [B_s] reads "bbu" for the first syllable), while eight other mss. read "w" in the second syllable.

¹¹It is interesting that although all five of the Bengah mss. used for the edition of the Melsadharmaparism end a form of kinkhandah (kinkhandah) in B.), and although Arjunamista, hailing from Bengal, knew and read kinkhandah, the Calcuts edition of the Mahabharma at unit number 10202 (Anonymous Pandies 1834–9 3/23) [7045] itshandah with the volgate tradition of Niakanjha.

²³ Note the diminutive-making suffix -kg

²⁴ bahasha is either an error for or a variant of bahilistha 'standing outside'

[&]quot;chatra 'parasol'

[&]quot;There is a certain amount of variation in nomenclature in connection with the various forms of celosia. "There is a certain amount of variation in nomenclature in connection with the various forms of celosia. Sone sources refer to the genus and species Celisia arginista, with Celisia criatita, Celisia arginista variation of other forms of celosia as subdivisions. There is considerable variation in the florest of different vancities of celosia, some the result of deliberate breeding by florists, with cenam experts distriguishing celosia into celisia sentiata, Celician spitata, and Celisian plantasia subspecies. For example, the followings is guered from the hornicultural website Floridataxom "Cultivaria in the Cristian Group have compact rounded, created or familisped floridaria exprisa in (7-6-7), com) across or familisped floridaria exprisa in (7-6-7), com) across and look a lattle like velexely brains, caudiflower heads or rootsers' combs. "Big Chef Mix' is tall, to § fi (20-8), with through yellow parts of the properties of the prop

and Chinese woolflower) includes cultivars with rounded flowerheads that look like rowsted and tangled balls of yarn. The Special Group (often classified as a distinct species, C. goants) includes cultivars with slender, cylindrical pink or rose flowerheads which have a metablic sheen because the individual flowers are silvery-white at their bases. "Flaming Series" cultivars are typical of this group. . (Some of the flower colors may be just too drannance to go well with other flowers.)" The U.S. Governments. "Integrated Taxonomic Information System" (ITTS) classifies the celosus rodsly as belonging to the family Amaranthaceae, genes (Golesus, and species, crustates, with other respects are smalled "West pulsar prock's contin.") Southers, etc.

²⁰⁰ Of all the world's vegetable crops colous is far and away the pretnest...[The name nucli reflers to the plant's brillium tappearance and striking flame like flowers. In a hundred nations the showy heads of this species seem to outsthain the sum a gardens, window boxes, streetised daplays, and floral exhibits. Not only are the flowers richly hand, their deep green foliage may also be short through with streaks of red or purple paginent. As a result, closus can be even catching even before to blossorm. ⁵(NRC 2005/91).

bunched flowers resembling splatters of blood. This notion is amplified by the fact that the leaves of this species have red splotches upon them, a common feature of some varieties of celosia. (That these plants and their flowers may suggest patches of blood splatter is clearly shown at http://johnstarnesurbanfarm.blogspot.com/2012_06_0I_ archive.html.)

Drops and pools of blood are suggested in the following: http://cn.wikipedia.org/wikipfier.CelosiaCristata.jpg (enlarged at http://upload.wikimedia.org/wikipedia/commons/f/fo/CelosiaCristata.jpg) and also http://www.bhpc.com/gardening/plandictionary/annual/celosia/ and http://en.wikipedia.org/wiki/Celosia_argentea. Finally, at http://www.kerteszoldal.coldal.hu/fenykepek/nincs-megadva-rovat/egynyariviragok/cellosia-argentea-var.-cristata---tarajos-cellozia.-html there can be seen a brilliant array of crimson and vellow crests intermingled.

The brilliant red or reddish color of many celosia plants connects them to blood in a way that cannot be done for peacocks or any other crested birds or animals, and that fact would seem to tip the balance decisively in favor of seeing the reference in MBh 12.273.48 to these plants rather than to any fowl.²⁸

Celosia leaves are consumed in South Asia and elsewhere, on and in South Asia the powdered flowers are used as a spice and coloring agent in some recipes for garam masula, the Kashmiri lamb dish Rogan Josh, etc. or The powder can be purchased over the Internet, for which this ad, depicting crests of celosia on the package, apocars:



"Mawal (Cockscomb) Powder"

"Only our company in the whole world has the honor to make this powder. Also called as cockscomb, Mawal powder is beneficial for diabetes."

(http://www.indiamart.com/adfar-foodspices/products.html)

3 Conclusion

It seems likely the word bhukhunda (MBh 12.273.58) is a reference to Colosia cristata and closely related plants, a reference that is easy to understand porticulty and mythologically as the product of a demon's blood raining down from the sky. The vulgate's fibhanda is probably a translation of an unfamiliar word into more familiar Sanskrit with the same meaning, and Bohtlingk and Roth's gloss of fibhanda—"world iene bestimmte Pflazze"—can now appearedly be confirmed.

References

- Anonymous Pandiss. 1834–9. The Mahābhāratas: An Epic Poem Wristen by the Celebratzed Veda Vyāsa Rishi. Ed. by the learned pandis attached to the establishment of the Education Committee. Calcutta: Education Committee's Press (vol. 1), Baptist Mission Press (vol. 2), and Asiatic Society of Bengal (vols. 3–4).
- Belvalkar, Shripad Krishna. 1961-6. The Sântiparnon. Vol. 16 of Sukthankar, Belvalkar, and Vaidya 1933-66. Pune: Bhandarkar Oriental Research Institute. [Published in five separate physical installments, the last of which was the Introduction in 1966, completed after Belvalkar's death by V. M. Bedekar.]
- Böhtlingk, Otto von, and Rudolf von Roth. 1855-75. Sanskrit-Wörterbuch. St. Petersburg: Kaiserliche Akademie der Wissenschaften.
- Deussen, Paul, and Otto Strauss. 1906. Vier philosophische Texte des Mahābhāratam. Leipzig: Brockhaus.
- Floridata.com. 2014. "#792 Celosia spp." Accessed July 5, 2014. http://www.floridata .com/ref/c/celo]_arg.cfm
- Freedman, Robert. 1998. "Famine foods: Amarantaceae." Accessed July 5, 2014. http:// www.hort.purduc.edu/newcrop/faminefoods/ff_families/amarantaceae.html
- Ganguli, K. M. 1884–96. The Mahābhārata of Krishna-Dwaipayana Vyasa Translated into English Prose. Calcutta: Bharata Press.
- Ghosh, Jogendra Chandra. 1934-5. "Arjuna Miśra." Indian Culture 1:706-10.
- Hiltebeitel, Alf. 1976. The Ritual of Battle: Krishna in the Mahābhārata. Ithaca: Cornell University Press.
- Hopkins, E. Washburn. 1915. Epic Mythology Strassburg: Trübner.
- TTIS: Integrated Taxonomic Information System. 2014. "Celosia L., taxonomic serial no.: 20777." Accessed July 5, 2014. http://www.itis.gov/servlet/SingleRpt/SingleRpt/SingleRpt/Search_value=20777
- Jamison, Stephanie W. 1996. "Vytrus at Verbuguna and Sur la structure du lavya Some intersections: Vedic mortifs in Kumărnambhava III." in Langue, style et structure dans le monde inden: Centenaire de Louis Renou. Actes du Colloque international (Paris, 25–27 janvier 1996), ed. Nalini Balbir and Georges-Jean Finault, 123–42. Paris: Champion.

³¹ will memon a currently unwenfiable lead that connecte closis no blood in readitional China. My researches uno celosis led me to this brief notice on healthblogs.org (Norton 2013): Title: "Chinese herbs In Western view — Ji Guan Hua (Flos Celosiae argentees) health benefits and side effects" over a photograph of Gelina aritima (see n. 26 above on the lack of terminological univocality) and followed by the assertion, Ji Canus Has is slot shown as Celosia flower. The nevert and cool herbs has been used in TCM (i.e. Traditional Chinese Medicine) to stop hemorrhoids bleeding, Menopausal bleeding, treat yeast infections with ed or white dischange, exe, as it cools Blood, stops bleeding, clears with least, here fine, ext., by rehancing the function of liver channels." If there is sexually such an association of celosia and blood-associated affiliations in raditional China, it is more likely a matter of independent invention than any folklore shared with India.

**See Sinha and Lakra 2007 and also Freedman 1998, informative about the general food value of celosia plates, but reporting only on its use as of Afrac, is the section on "Celosia" in NRC 2014.

³⁰ In the northwest of South Asia cockscomb is known as munula; the word for the plant in Hundi is lad murghba (Freedman 1998, which includes many of the other names of colosia in various South Asian languages)

- . 1998. "Rhinoceros toes, Manu V.17–18, and the development of the dharma system." Journal of the American Oriental Society 118:240–46.
- Kınjawadckar, R. S. 1929–33. Śrīmanmahābhāratam with the Bhāratabhāvadīpa of Nilakantha. Pune: Circashala Press.
- Macdonell, A. A. 1897. Vedic Mythology. Strassburg. Trübner.
- Norton, Kyle. 2012. "Chinese herbs In Western view Ji Guan Hua (Flos Celostac argenteae) health benefits and side effects." Accessed July 5, 2014. http://kylenorton.healthblogs.org/2012/03/29/chinese-herbs-in-western-view-ji-guan-hua-flos-celosiae-argenteae-health-benefits-and-side-effects/
- NRC = National Research Council (Development, Security, and Cooperation Policy and Global Affairs). 2006. Lost Crops of Africa. Vol. 2, Vegetables. Washington, DC: National Academies Press.
- Sinha, Rekha, and Valeria Lakra. 2007. "Edible weeds of tribals of Jharkhand, Orissa and West Bengal." Indian Journal of Traditional Knowledge 6: 217–22.
- Sukthankar, Vishnu S., Shripad K. Belvalkar, and Parashuram L. Vaidya (eds.). 1933–66. The Mahābharata for the First Time Critically Edited. Poona: Bhandarkar Oriental Research Institute.
- Vassilkov, Yaroslav. 2002. "The Mahābhārata similes and their significance for comparative epic studies." Rocanik Orientalistyczny (4:12-2).
- Vogel, Claus. 1979. Indian Lexicography. Wiesbaden. Harrassowitz.

Homerisch πρόκλυτος, avestisch frasrūta-

BERNHARD FORSSMAN

I. Im 20. Buch (T) der Ilias kommt es zu einem Zweikampf zwischen dem Troer Aineias und dem Griechen Achilleus. Beide sind von nicht gewöhnlicher Abkunft denn jeder von ihnen hat eine Gottin zur Mutter und einen sterblichen Mann zum Vater. Die Eltern des Aineias sind Aphrodite und Anchises, die des Achilleus sind Thetis und Peleus. Vor dem Zweikampf entspinnt sich ein Gespräch zwischen den beiden Helden. In dessen Verlauf sagt Aineias an Achilleus. Il 20. 20:19-15:

ίδμεν δ' άλληλων γενεήν, ίδμεν δε τοκήσς, πούκλυτ' άκούοντες έπεα θνοτών άνθοώπων.

όψει δ' οὐτ' ἄρ πω σὰ ἐμοὰς ίδες οὐτ' ἄρ' ἐγὰ σούς.

"Wir wissen beide um die Abstammung des anderen, wissen auch um seine Eltern, denn wir haben die weithin verbreiteten Geschichten sterblicher Menschen' gehört; von Angesicht aber hast weder du die meinen schon einmal gesehen noch ich die deinen".

2.1. πρόκθωτ' (a), Akk. Plur. Ntr. eines Adjektivs πρόκθωτος, kongruiert mit ἔπεα, Erzahlungen, Geschichten: Das nur hier bezeugte Adj. scheint noch nicht näher untersucht worden zu sein. Im Folgenden wird versucht, die Auffassung zu begründen, daß Homer mit diesem πρόκθυτα ἔπεα, weithin verbreitete' Geschichten" gemeint hat.

2.2. Daß der Stamm des Adj. aus den drei wohlbekannten Elementen non-volu-robesteht, liegt auf der Hand. Die Bedeutung dieses Hapax legomenon ist dennoch nicht ohne weiteres zu erkennen. non-volu-l ist auch in nonodern enthalten, das seinerseits nur einmal erscheint, und zwar in der Aischylos-Überheferung (4,8, 2st). Aber

^{&#}x27;θυγιτών ἀνθρώσιων kann auch zu ἀκούοντος gezogen werden "war haben von sterblichen Mensten. Geschichten gehort". Die "Geschichten sterblicher Menschen" handeln hier von Unsterblichen, daru mag ein beabsichingter Gegenstatz liegen; θηνητώ κάβουλων gehort also oher zu örest

So oder ähnlich ist noiwher mutunter auch wiedergegeben worden, z.B. kommt Leaf (1902-363) ohne sprachliche Analyse zu einem "widespread"

Now wuzzelverwandt damst ist der Personenname (Iso-obleg, er enthalt das Subst obleg und ernnert an RV pris framse "hervorragenden Ruhm habend", ebenso gebildet sind pris estine, pris trakaus, pris manas (AV), ygl. Wackernagel (1907);884.

die Bezeugung ist ganz unsicher; im Text der modernen Ausgaben erscheint die Form nicht mehr #

Die modernen Übersetzer und Erklarer Homers sowie die Lexikographen haben ποόκλυτα verschieden wiedergegeben. Einen Überblick über die verschiedenen Auffassungen hefert De Putter (2004:1557). Weiterführend ist De Putters eigener Hinweis, daß mit ἔπεα 20.204 offensichtlich Erzählungen über die hier erwähnten Eltern von Aineias und Achilleus gemeint sind, also über eine nicht sehr ferne Vergangenheit. Folglich spiele das noo- wohl nicht auf "vor-'malige, d.h. alte Zeiten an. Man kann dann noch weiter gehen und annehmen, daß durch 700- nichts Zeitliches ausgedrückt ist (anders De Putter). Die antike Wiedergabe von πρόκλυτα durch εμπροσθεν ακουσθέντα "früher gehort" bei Apollonios Sophista (ähnlich die Homer-Scholien) ist also zweifelhaft; ubrigens noch aus einem zweiten Grund: κλυτός bedeutet 'berühmt' und ist in historischer Zeit kein Verbaladjektiv zu κλυ- "hören". Legt man nun dieses übliche κλυτός zugrunde, so macht das Vorderglied προ- Schwierigkeiten. Wer πρόκλυτα mit ,weithin berühmt' (oder ähnlich) wiedergibt, sollte zeigen, ob und wie aus προund κλυτός im Griechischen ein Determinativkompositum dieser Bedeutung zustande kommen konnte.6 Auch sind "weithin beruhmte Geschichten" zwar nicht undenkbar. aber auch nicht naheliegend; der Ruhm kommt eher den Inhalten der Geschichten-Personen, Taten usw. - zu als den Geschichten selbst.

- 3. Die Verbindung von *pro und der Wurzel *klu- "hören" ist außerhalb des Griechtschen in verbalen und nominalen Formen gut bezeugt, und zwar im Keltischen, Slavischen und Indo-Iranischen. Das Keltische darf hier wohl beiseite bleiben:7 zum Slavischen s. \$9.2. Bedeutsam ist namentlich das Indo-Iranische, und zwar insbesondere das Avestische. Im Aav. und im Jav. ist ein frasrüta- (Fem. -tā-) haufig überliefert. Es kann auf *prokluto- zurückgeführt und mit πρόκλυτος lautlich zur Deckung gebracht werden:4 eine bisher wohl nicht erörterte Möglichkeit.
- 4. frasrūta- zeigt zwei verschiedene Verwendungen, die eines typischen Adiektivs und die eines partizip-ähnlichen Verbaladiektivs. Bartholomae hat in seinem Worterbuch die beiden Verwendungen getrennt behandelt.9 Das typisch adjektivische frasrütaübersetzt er mit "inclutus, wohlbekannt, berühmt". Solches frusrüta- dient zur positiven Kennzeichnung von Gottheiten sowie von deren Qualitäten und Attributen.

Mehrmals werden die Frauuaši, die weiblichen Schutzgeister, als frasrätä bezeich net, z.B. Yt 13,35 ašāunam. vaņuhīš. sūrā. spontā. frauuašaviō. yazamaide. frasrūtā. vanat,palanå, "wir verehren die guten, starken, heilvollen Frauuasi der Wahrhaftigen ("Ordnungshaften"), die weithin bekannten, Schlachten gewinnenden"; ahnlich Yt 13,29.30. Als frasrúta-/-tā- bezeichnet werden auch Miθra Yt 10,47 und Cista "Einsicht" Yt 16,1. Hierher gehört wohl auch der einzige aav. Beleg, Y 50,8ab.

mat. vå. padāiš, yā, frasrūtā, īžaiså, pairī.jasāi. mazdā, ustānazastā

"mit den Fußspuren der Labespendung, die weithin bekannt sind, will ich euch umschreiten, o Mazdä, die Hande erhoben".10

- 5.1. Eine partizip-ähnliche Verwendung ist Vr 12,2 besonders deutlich zu erkennen: humaiia. upanhå. ciśmaide. ahunahe. vasrisehe. ašasia. frasrūtahe. frasrūusaiiamnahe. "als wunderkräftig bestimmen wir die Beschäftigung mit dem Ahuna-Vairiia-Gebet, insofern es nach der Ordnung deutlich rezitiert worden ist oder deutlich rezitiert wird"; s. \$5.3.
- 5.2. Partizip-ähnlich sind wohl auch, entgegen Bartholomaes Bestimmung, zwei weitere Belege, Y 65,2 (vagăi, ābəm, araduulm, sûram, anahitam...) masitam, dûrăt, frasrūtam. "(verehren will ich den Fluß Araduuī Sūrā Anāhitā....) den großen, aus der Ferne weithin bekannt gemachten"; Yt 8,2 (tištrīm. stāram. . . . yazamaide.) apamca. parabu.zrauanham. vanuhimca durag. frasrutam. "(den Stern Tištriia...verehren wir) und das sich weit ausdehnende Wasser und die Vanuhi, die aus der Ferne weithin bekannt gemacht ist". Das Ortsadverb därät fügt sich wohl leichter mit einem partizipahnlichen Verbaladiektiv zusammen als mit einem typischen Adiektiv.11
- g.a. Mag hier auch ein Zweifel möglich sein; deutlich partizip-ahnlich ist frasrütajedenfalls an der oben (§5.1) zitierten Stelle Vr 12,2, wo es mit dem kausativischen Partizip Prasens Medium frasrauuanamna- ın stilistischer Absicht12 koordiniert ist; die beiden Formen bezeichnen verschiedene Zeitstufen der nämlichen Verbalhandlung, Somit ist frasrüta- eng mit dem Kausativ von fra-sru- verbunden. Den auffälligen paradigmatischen Zusammenhang zwischen den Verbaladjektiva auf *-tø- und den Kausativ-Präsentien auf *-aja- verzeichnet Debrunner (1954:575). Als ved. Musterbeispiel erscheint dort das Paar cătávati (Kaus.) "verjagt" und cattá- RV X 155,1-2; auch frasrūta- wird dort genannt, neben weiterem.
- 6. Das nur im Jav., nicht auch im Aav. bezeugte Kausativum fra sräuusita-, eigentlich (etwa) ,weithin ein Horen veranlassen' (\$\$5.1; 5.3), zeigt an allen Belegstellen dieselbe rituelle Verwendung, es bedeutet ,(deutlich, offen) rezitieren, vortragen'. Nur an zwei

*Die Übersetzung nach Insler 1975.101, 308.

^{*}S Fraenkel 1910 II 142-2.

^{&#}x27;Vgl. Liddell und Scott 1940 1486b: .heard formerly'

^{*}Aufgrund dieser Schwierigkeit schlagt Leumann (1950 99 Anm. 55) vor, den Homertext zu ändern.

Das altrische Prat. Pass. ro doth "wurde gehört" ist ratsächlich wie noodurog auf *problutes zurückzuführen, bei einer Gleichsetzung der beiden bliebe aber manches unberücksichtigt, u.a. die Rolle des auf Praverbs ro- < *pro in der Verbalflexion

⁸Der Quantitatsunterschied gr. # - av. # steht dem Ansatz einer gleichlautenden Vorform nicht im Wege; vgl. Hoffmann und Forssman 2004. 72. Es gibt auch die Schreibweise mit u. frasruta-

⁹Bartholomae 1904 1004 (Adj.), 1642 (Verbaladj.)

[&]quot;Vgl. Forssman 2009:72.

[&]quot;Anders Bichlmeier 2011 62.

Belegstellen steht fra-sväuuauia- ohne deutliches Objekt, aber auch dort ist "rezitieren" gemein: Erb 18,2 Korwal/Kreyenborg (** 18,3 Humbsch) frasväuuaiis@i.*.» "er möge deutlich rezitieren"; N 10-4 jrahvauaiai. mößt. afväuuaiä. "deutlich rezitierend, nicht nicht-rezitierend". Donst ist überall als Objekt der Name eines bestimmten Textes oder Textstückes genanut oder ersichtlich. Mehrmals sind es die Gathas: Y 57,8; N 33, N 72. Einmal ist es eine bestimmte Gatha-Partie, "mazda. at. möß." (Y 34,15): V II,14. Sehr haufig ist das Ahuna-Vairiia-Geber (Y 27,13) Objekt, Z.B. V 18,4; ahunzm. watrön. frasväuuaiiöfi; "er moge das Ahuna-Vauriia-Geber offen rezitieren"; diese Wendung erscheint in mehreren Varianten. Eine davon ist patientiv formuliert: Vf 12,2 abnaube. variriehe. slaitia. frasvätushe. frasväuuaiamane, i. s. §5,1.

7. Außer im Kausatvstamm auf -nin- (und in frantate-) hommt verbales fra-tra-im Av. nur im Inf. auf -disiai vor: Y 46.33b hund. na. frantate-) hommt dieser Mann ist würdig, das er weithin bekannt gemacht werde"; Y 64,4b ks. ns. frantaiditai. vatit. "oder wer wünscht, daß er weithin bekannt gemacht werde". Die Bedeutung dieser aav. Infinitiv-Form ist der des Kausativs insofern ahnlich, als es hier wie dort um das Veranlassen eines Hörens, also um ein "Zu-Gehör-Bringen" geht, nicht um ein Hören. Das bedeutet, daß keine Verbalform des häufigen av. fra-vu-, ob finit oder infinit, einen Hörenden als Agens impliziert. Vielmehr ist überall ein Zu-Gehör-Bringen gemeint, entweder als ein Bekannt-Machen (vielleicht Rühmen) einer Person oder als ein Restätieren eines Teutes.

8.1. Der vedische Befund weicht morphologisch neilweise ab, laßt sich aber semanisch mit dem avestischen gut vereinigen. Entsprechungen zu aus v. frurafita- und zu aus "frurafität fehlen. Dagegen stimmt zum jav. Kausativ-Präsens fiss-sribusatiadas ved. pras-früngus: RV VI 31,3d prå en frunta früngun anramfeltyndt; "mache (uns) bei den Volkern berühmt, du Berühmter" (Geldner 1911:II 130; an Indra); RV X 49,86 bpråfringunm issund turnskam yddum og Indra Turnska and Yadu to be famed through my power" (Jamison and Breceton 2014:III 1457; an Indra). Augenscheinlich in der gleichen Bedeutung bekannt (berühmt) machen' erschemt ein lautlich abweichendes pra-śrawapa. RVI II 31,2d; X 49,8b. ¹⁰

8.2. prá mit óru- ist im Ved. auch in Stativformen verbunden. RV X 11,72b yás te agme sumatim mátro ákust sábnash sino áti prá sá érapu "der Sterbliche, der dein Wohlwollen erlangt, Agni, Sohn der Kraft, der wird im Übermaß (dsi) bekannt". Ähnlich verwendet ist prá-érpus auch IV 41,2d; VII 8,4a (hier mit gesteigerem prápra; "farther and farther" übersetzten es Jamison and Brereton 2014; II 893). Auch die 8.3. Ganz für sich steht eine Medialform mit Reduplikation, prå-åsusravi; RV X

ahám gungúbiyo atithigvám ískaram ísam ná vrtratúram viksú dhárayam / yát parnayaghná utá vá karañjahé tráham mahé vrtrahátve ásusraví //

"Ich (Indra) habe für die Gungu den Arithigva wiederhergestellt, gleichsam als Labung hielt ich den Überwinder des Widerstands in den Siedlungen fest, als ich bei der Parnaya-Tötung oder auch bei der Karañja-Tötung in einer großen Vrtraschlacht weithin bekannt geworden war".

achutruri ist dabei als 1. Sing. Plq. Med. gefaßt und stünde somit nach der Bedeutung den Stativformen prai-épnus, prai-épnuire nahe. Wegen der dabei unerwarteten Ablautstufeérnur- wurde auch ein kausativischer Aor. vermutet: "als ich . . mich bekannt gemacht hatte."

9.x. Wie auch immer diese vereinzelte Form zu deuten ist, sie andert nichts daran, daß pras/ru im Ved. nitgends einem "Hörenden" als dem Agens der Verbalhandlung zugeordnet ist. Die kaussativischen Präs. Formen auf sugs- bedeuten, sin Hören veranlassen', z.B. jdn. bekannt (beruhmt) machen'; die stattvischen Präs. Formen wie pra-śripu bedeuten "sich (deutlich) zu Gehör bringen', z.B. "sich (deutlich) vernehmer machen'. Insofern stimmt das ved. pra-śru- mit dem av. fra-sru- zusammen. Die Ursache füt diese Gebrauchsbeschränkung liegt im Verbzussatz, dem Präverb ved. pra-, av. fra- ve. uridg. *pro- . Es ist das verstarkende *pro-, das beim Zusammentritt mt Verben der bewußeren Lustüußerung bedeuten kann: "heraus, offen, deutlich, weithin'." So zu verstechen sind die wurzelgleichen Verben ved. pra-sug. gs. fra-vac. gs. roo-entein "weithin künden" (o.ä.). Weitere Entsprechungen dieser Art lassen sich auch aus lat. pra-färi "künden" und gs. roo-фήrne, "Kunder", ved. pra-sasta- und jav. fra-sasta-geruhmt gewinnen.

9.a. In diesen Zusammenhang gehört auch ein slavisches Verbum: aksl. pro-slavist pögögen, verhertlichen, rühmen', das neben dem ungefähr synonymen, nicht durch pro- verstärkten slavisi jöögögen, pressen, rühmen' steht. Der Wurzelablaut (slav) und das Suffix (i-ti) erschweren bekanntlich die Verknupfung dieses slav. Kausativtyps mit den Kausativ-Präsentien auf *-eje- der verwandren Sprachen. Trotzdem ist eine

^{3.} Plur. kommt vor, RV V 87,3a prå yé divó brhatáh śrnviré girá "die sich mit ihrem Lobhed vom hohen Himmel her vernehmbar machen" (Geldner 1951:II 90; an die Marut).

¹³Bernerkenswert wegen der (vor-altpersischen?) Lautung f\(v = \textit{sr}\) und wegen zweiter Stilmerkmale. Aussage und negierte Gegenaussage; Weglassung des verst\(\textit{arkenden Praverbs}\) in der Wiederholung.

[&]quot;Mit fravritta steht das Handlungssubstantivum frarritis "Rezitation" in engem Zusammenhang.

¹⁵Vgl. Jamison 1983 176

[&]quot;Vg. Kummel 1996 115, Bruno 2005:75.

[&]quot;So wohl zuletzt Kummel 2000,533. Reflexive Bedeutung scheint beim Kausativ von mu sonst allerdings nicht bezeugt zu sein. "I spread my fame": so Jamison und Brereton: 2014. III 1455

¹⁸ Vgl. Delbruck 1893:718; Wackernagel 1928:238.

Entsprechungsreihe slavi-(ti) · śravnya- - srānuaiia- nicht unwahrscheinlich. Dann durfen auch die Vordergheder slav, pro-, wed, pra-, av. fra- in einen Zusammenhang gebracht werden und als gemeinsame Vorform ein uridg. Kausativpräsens *pro-klou-tu- erschlossen werden.

10. Mit dem im Av. also moglicherweise ererbten fin-rannamini- ist dort das Verbaladijektiv fin-raita- zusammengeschlossen (s. §5.3). Bezieht es sich (in typisch ad jektivischer Verwendung) auf eine Person oder einen verwandten Begriff (§5.3), so bedeutet es "weithin bekannt, berühmt", es entsprechen dann beim Kausativ Wendungen wie RV VI 315 prá. ...frinvaya tarrantibirpith "mache (uns) bei den Völkern berühmt" (s. §8.1). Bezieht sich fin-raita- dagegen auf eine Außerung, 2.B. auf einen Gebetstext (§5.1), so bedeutet es "offen verkundet, deutlich vorgetragen, deutlich rezittert", dann entspricht im av. Kausativ etwa ein Ausdruck wie V 18,43 abnunn. natiri harnäusundisif. (§6). Aus dem Ved. kann man zwei Belege (diesmal ohne das verstärkende pras-) heranziehen: RVI 199,3b (å)srävinyanta ins tilbann "as if making the signal-call (of the pressing stone) heard" (Jamison und Bererton 2014: I 311); VIII 96,12d frändya ndeam "laß deine Rode hören" (Geldner 1951: II 422). In av. frantitus-spiegeln sich also verschiedene Bedeutungen des "agie-Prasens."

T.I. Wenn πρόκθυπος, wie wahrschemilich, mit franzitäre die Herkunft germeinsam hat, so dürfte es gleichfalls ursprünglich mit dem Kausativ von *blas · im Zusamunenhang gestanden haben. Dem homerischen πρόκθυπα ihrad liegt dann ursprünglich eine Wendung mit kausativischem *pro-klougis- und einer Lautaußerung, wie hier *μιδε*εσ-, Ræde, Geschichte; als Akk.-Objekt zugrunde. Anders als im religios gepragten Avests sind es profiane, Geschichten; die durch mitndliche Weitergabe, weithin zu Gehör gebracht', also "weit verbreiret' sind. So etwa mag es noch zu Homers Zeit empfunden worden sein, denn immerhin steht der Wendung πρόκθυπα fittes beim deutich anklingenden hom. κθυπός und seinen vergleichbaren Komposita (ἀργα-, παρα-, πρόκ-κλυπός) wohl nichts genau Entsprechendes gegenüber. πρόκθυπος war öffenbar mit dieser Gruppe nicht so eng verbunden, wie man aufgrund der äußeren Ahnluchkeit zunächst vermuten könnte. Das Adjektiv mag also seine ererbte Bedeutung im wesentlichen bewahrt haben

Literatur

Bartholomae, Christian. 1904. Altiranisches Worterbuch. Straßburg: Trübner. Bichlmeier, Harald. 2011. Ablativ, Lokativ und Instrumental im Jungavestischen. Hamburg: Baar. Bruno, Carla. 2005. Forme della sintassi media. Due studi sulla lingua del Rgyeda. Perugia: Guerra.

Debrunner, Albert. 1954. Altindische Grammatik. Band II, Teil 2, Die Nominalsuffixe Göttingen: Vandenhoeck & Ruprecht.

Delbrück, Berthold. 1893. Vergleichende Syntax der indogermanischen Sprachen. Erster Theil. Straßburg: Trübner.

De Putter, Caroline P. 2004. "πρόκλυτος". In Lexikon des fruhgreechischen Epos, hrsg. Bruno Snell et al. Band 3, M-Π. 1557. Gottingen: Vandenhoeck & Ruprecht.

Forssman, Bernhard. 2009. "Eine Stilfigur im Avesta". In Zarathushra entre l'Inde es l'Iram. Études. . . offertes à Jean Kellens, hrsg. Eric Pirart und Xavier Tremblay, 60–76. Wiesbaden: Reichert.

Fraenkel, Eduard. 1950. Aeschylus. Agamemnon. Oxford: Clarendon. 3 Bande.

Geldner, Karl Friedrich. 1951. Der Rig-Veda. Cambridge, MA: Harvard University Press. 3 Bande.

Hoffmann, Karl und Bernhard Forssman. 2004. Avestische Laut- und Fleeionslehre.
2. Auflage. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.

Insler, Stanley. 1975. The Gathas of Zarathustra. Leiden: Brill.

Jamison, Stephanie W. 1983. Function and Form in the -áya-Formations of the Rig Veda and Atharva Veda. Göttingen: Vandenhoeck & Ruprecht.

Jamison, Stephanie W. und Joel P. Brereton. 2014. The Rigreda. The Earliest Religious Poetry of India. 3 Bände. Oxford: Oxford University Press.

Klingenschmitt, Gert. 2005. Aufsätze zur Indogermanssik, hrsg. Michael Janda et al. Hamburg: Kovač.

Kümmel, Martin. 1996. Stativ und Passivaorist im Indoiranischen. Gottingen: Vandenhoeck & Ruprecht.

- . 2000. Das Perfekt im Indoiranischen. Wiesbaden: Reichert.

Leaf, Walter. 1902. The Iliad. Vol. II, Books XIII-XXIV. London: Macmillan.

Leumann, Manu. 1950. Homerische Wörter. Basel: Reinhardt.

Liddell, Henry George und Robert Scott. 1940. A Greek-English Lexicon. 9. Auflage. Oxford: Clarendon.

Wackernagel, Jakob. 1905. Altindische Grammatik. Band II, Teil 1, Einleitung zur Wortlehre, Nommalkomposition. Göttingen: Vandenhoeck & Ruprecht.

-----. 1928. Vorlesungen über Syntax. Zweite Reihe, zweite Auflage. Basel: Birkhauser.

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²⁰Zu den Bedeutungen dieses Kausattvs vgl. Jamison 1983:176; sie halt die Bedeutung "bekannt machen" für sekundar.

Vedic *indrotu*- in the Ancient Near East and the Shift of PIE *h₂euh₁- 'run' → Core IE 'help, favor'*

TOSÉ LUIS GARCÍA RAMÓN

x. The Indo-Aryan compound instructs 'helped by Indra' (RV) occurs three times in the form in-tan-is-isa, en-dun-is-is Indraüta-/ as the name of a Palestinian prince in the Amarna letters (14th cent. sc). The coincidences in the onomastics of Syria and Palestine strongly suggest that the region was in close contact with, if not annexed to, the kingdom of Mittani,' which flourished ca. 1500–1300 BC in an area bordering southcastern Anatolia in the west and northern Syria in the south. Although the kingdom's population was basically Hurrian (with significant Amorite and Assyrian components), the occurrence of a sense of names and terms which are clearly (an early form of) Indo-Aryan or Indo-Iranian in documents of the Mittani points tunnistak-ably to the presence of an Indo-Aryan or Indo-Iranian population, probably a dynasty or ansstoracy.

The occurrence of indrata'- in an earlier form findra-tina' in the Mittani sphere in the 14th century raises some questions. On the one hand, the sense of the p.p.p. "atai-"helped' in indrata'- (like that of the aspushie Lat. (ad)titus: "b-tiles: "heltes that of Core IE "b₁uth." 'to help, assist' (Ved. av'/ā: Av. anu/ā, Lat. "b'-to-a-āre): 't he name has no formal or semantic comparandum in Anatolian of the second millennium. On the other hand, the semantics of the Anatolian reflexes of "be-ghp-1 already in the first half of the second millennium (Hitt. byuṣā-bb', byuṣ̄a-m' to run', CLuv. būṣ̄a-m' : HLuv. būṣuṣ̄a-bb' (bbi-pa') 'sid.') are different: the basic sense is 'to run', not 'to help' as in all the other Indo-European languages.

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2On the specification of the larvngeals see §5

The aim of the present contribution is to make the case for a semantic shift of PILE "high; from 'to run' to 'to help', a shift not shared by Anatolian. The attression of individe, which presupposes the sense 'to help', in the Mattani realm in the 14th century, when Hirrite and Luvian still had the sense 'to run' for the same werb, gives a terminus ante quem for the semantic shift and sheds light on the chronology of the change, which in fact is an innovation of Core Indo-European.

2. The masculine personal name in-tan-ú-da, en-dan-ú-ta /Indraūta-/ (·Ved. mdridn-) is attested three times in the Akkadian Amarna letters* as the name of a prince of Palestine, the ruler of Akšapa under Amenophis III or IV (E 367, i a-na 'in-tan-ú-ta-a-ma' (LU) "wak-ka-pa "to Indrauta the ruler of Akšapa," of E 323,4, E 366.23).

The theonym in-tan, in-da-nu /Indra-/ (: indun-) itself is also well arrested, beside other Hurrian and Akkadian gods, in the treaty between Sattiwaza of Muttani and Suppiluliuma (ca. 1380 sc). Other Indo-Iranian god-names appear in treaties of Mittan (with Hatti from ca. 1380: a-rn-na, il-ru-wa-na // Varuna-/: infranja-, mi-il-ru /Mitta/: mitra-, na-il-ri-ya-na-na // nasaxyi-tuna/: / induna-ya-), or in Hittite texts of the 13th century (worm-ka-ni-il, a-ak-ni-il /Agni-);

The name in-nam-id-a, en-dam-i-tan /Indratita-/ in Palestine is universally accepted as of Mittanian origin or formed on the model of Mittanian onomastus (and as clear evidence for the presence of Indo-Iranian names in Mittani).* The same applies to the names bi-in-ya-ma-ed-lan (Priyamazat²a-/ (; Ved. priyamatha-) 'having beloved wis-dom', ib-ba-an-dah/ / Subandu/i-/ (: su-banduh-) 'having good relatives' and the appellative mani-mun '(neck) ornament' (: Ved. mayi-: Av. maini-'id.,' cf. Elam.-OP 'barra-mani-' vearing a necklace') in Palestine, and the Mh bi-in-da-ad-ma /Pritäkwa-/ ('prita-adam-) 'lyaving beloved horse(s)' in 'Navamana.'

In any case, two points are of relevance for our purposes:

(t) The spelling clearly points to findra-ūta-/ with if [u(t)], i.e. a form prior to the Old Indo-Aryan monophthongization /au/ > /o:/, which also reflects the Indo-Iranian situation.

(2) The compound belongs either to an extremely old form of Indo-Aryan or to

[&]quot;With (#) [u(t)], not (#) [o]. As H. Eichner kindly indicates to me, the spelling (-#/ta-rn) may denote |-t*ra-|, cf. the frequent trisvilable scansion of indra- in the Rig Veda.

^{*}Akkadian is used as the lingua franca of the letters, but there is also a Hurrian passage

¹Rainey 1970:39, Hesi 1993,80–90 to 87 (* 1814, -1814-164, with no case marker detectable). Other possible instances of Mutanian names (the mu-si-ta "supheld, favored, protected by "Yamin" as per Hess 1993,164–5 no. 177 an-ta-ma-sa-19) are uncertain.

⁶A name un-tan-i-ta-ta (a× Finkel 1985, Mayrhofer 1983 316-7) in a document from Nagar (Tell Brak) prior to the time of the lang art-a-i-ta-ma m could also be connected with ε/in-tan-i-ta--i-ta- and match a putative *nutan-i-ti--help by Indra*, or properly possessive *hanging the help of Indra* (H. Eichner, p. x)

^{*}Perhaps also fu-n-in-in-in: suryu- 'sun god' in the Cassite glossary (Mayrhofer 1974:13-4 with nn. 12, 14)

*Mayrhofer 1974:18 (an "Idealfall")

[%]u-ba-an-di (5×)/-du (1×) (Hess 1993.144-4, no. 154), -di perhaps a gen. case form

¹⁰ Cf. the semantic parallels Av MN fromspa-, OE frul-hengest

[&]quot;Mayrhofer 1974:16, 29 (with references)

an equally old variant (or even a branch) of Indo-Iranian uself, whatever this variant should be called.12 The same applies to the Indo-Iranian names and terms attested in a series of texts connected with Mittani: the treaty between the Hittites and Mittani (Suppiluliuma and Šattiwaza, ca. 1380 BC), the glosses in the chariot horse training text of Kıkkuli (14th cent.: MH/NS copy of 13th cent.), the Hurro-Akkadian tablets from Nuzi (appellatives, horse designations). An overview of significant forms (like those artested in Palestine) allows us to state that most of the forms (a) are artested in Vedic only with no Iranian counterpart, and (b) stand in contrast to different forms in Iranian.13

As to (a), with no attempt at completeness: d/tu-uš-rat-ta, tu-iš-e-rat-ta, tu-uš-erat-ta /Tvaiša-ratha-/ : Ved. tvesá-ratha- 'whose chariot is vehement', as well as some technical terms in the Nuzi texts (Hurro-Akkadian); b/parita(-nnu); palitá- 'grev', b/binkara(*nnu) with /r/ as against Ved. bingald- 'red', 14 Further personal names: ar-taal-su-ma-ra /Artasmara-/ : *rta-smara- 'having thoughts of rtd-' (cf. smará- 'memory' AV+), 15 bi-in-ya-aš-šu-wa /Priväšva-/: *priva-ašua-, šat-ti-ú-a(z)-za /šātiwaza-/, an earlier stage of "sati-vaja- 'winning the prize',16 probably also su-wa-at-ti /Šuwatti-/ 'having a good guest' (Ved. suº, ºáthiti-).17 Cf. also the Indo-Arvan glosses of Kikkuli:18 an-da-wa-ar-ta-an-na /ºwartana-/ : Ved. rártana- 'turn(mg)'.19 As to (b), cf. a-i-kaº /aikaº/ 'round of one' (: Ved. &ka-), śa-at-taº '7' (: saptáº) 20 as against Av. acuna-, OP aiva- (also Ved. evá- 'the one'), YAv. hapta-, also the color designation of horses b/pabru(=nnu) (Nuzi) (: babbrú- 'brown') as against YAv, baßra- 'beaver'.

All this points to a very early form of Old Indo-Arvan, but the possibility of an carly form of still undifferentiated Indo-Iranian cannot be excluded; the forms under (a), being attested only in Vedic, could perfectly well have existed in Iranian, while those under (b) may also be traced back to an early phase of Indo-Iranian (*aika-, which may have coexisted with *aina-, *sapta), even if Iranian has another form.

A last remark is in order: whether the Indo-Aryans or Indo-Iranians of Mittani and regions under its influence were still residual groups on the way to Iran and India or came back to Near East as a superstrate must remain an open question.

2. Ved. indrotá- 'helped by Indra'21 (with 'utá-, the p.p.p. of av'/u 'to help, assist') is directly attested as a proper name twice in the Rig Veda as a giver of gifts, son of king Atithiava, in 8.68 (a dânastuti-): 15a rirâv indrotá á dade "From Indrota I received the two silvery ones," 17ab sál áspam átithigvá indroté vadhúmatah "I gained six (horses), along with the brides [?] from the son of Atithigva, from Indrota..."12 Indra is in fact referred to as áksitoti- 'providing imperishable help' (1.5.9, 4.17.16, 8.3.15).

Other verbal governing compounds of identical structure with indra as their first member and a verbal adjective in -122- as their second are attested since the Rig Veda: indrésita- 'impelled by Indra' (2.22,8 etc.), índra-dvista- 'hated by Indra' (9.72,5), índrapita- 'drunk by Indra' (of Soma; 9.8.9), indra-vata-tama- 'most cherished by Indra' (of help, pl. ūtib; 10.6.6) and indra-prasūta-'thrust forth by Indra' (of All Gods; 10.66.2a).

Ved. °Atá- actually occurs only in governing compounds of the same structure as undrated. in which the first member always refers to a divinity, including Indra (2.11.16. 6.19.13, 8.51.2, 10.148.1), namely trifta- 'protected by you' (22×), beside trifti- (3×, of Mitra and Soma), and yusmotus 'favored/protected by you' (of the Maruts).

4. The sense of the p.p.p. "utd- 'helped' (: unattested Av. "uta-) in Ved. indrotd-(: ap*/#. Av. auu/#) perfectly matches that of its formal correspondence in Latin. namely p.p.p. "ūto- 'helped', which has been remodelled to i-ūtus, ad-i-ūtus (; pres. (ad)i-uuō, with i-reduplication, see below): both forms may be traced back to *HuHto-from PIE "HeuH- 'to help, assist' (where "H- and "-H- may only be elucidated with the help of other languages, S_5), underlying Ved. av^t/\bar{u} , (pres. $dv^{(i)} - a^{-it}$); Av. auu/ū and Lat. * (i-)ou-ō, -are 'id.'.

Let us briefly recall the reflexes of *HeuH- in Vedic and Latin, which, in spite of the difference in the present stem,33 display a series of precise equations and aequabilia:24

[&]quot;"noch ungeteiltes Indo-Iranisch" (Kammenhuber 1968,234), "mitannisch-Indoeuropäisch' (Eichner 2009.17-8, n. 4, 1). Assessment, Mayrhofer 1074.18, 22 n. 60, and esp. 21.

Other terms may be traced back to Indo-Iranian, e.g. (Flurro-Akk.) msha(mnu) 'payment' ("masal'a-, Skr midhá- Av. mtřda-)

¹⁴ Most probably archaic West Indo-Aryan (Mayrhofer 1974:30).

[&]quot;Hess 1003; 18 no. 10; Mayrhofer 1074 20

¹⁶ Cf. Ved. rdsa-sats- 'winning of a prize', rdsaya sats'- (. san', cf. 'sdns-f'sd- '-winner'), YAv. 'han- (nom. "há-) in nmana-ŋhan-/-ŋha- "qui conquiert la maison" (Kellens 1974:106-11). The form a-ai-iu-ui-ia-an-m /aisussa-nni/ is a Hurrian word in onni, from an old Indo-Aryan compound

From */atHti-/ (Pinault 1998.454-5, with reference to other putative names in -atts).

with at in un atra-). A less plausible alternative would be a regular compound /asvasani / atra-sim- master horse trainer' ("having (gotten) horses"), cf. so sans., "sal-'setting cows', naus sans., "sal-'who wins the prize' (RV)

^{*}The Kikkuli form may reflect a Hittitized *uarta-tur/-tau- (as per Eichner 2009;58 n. 5), cf. also 3rd pl (hybrid) an-da wa-ar-ta-an-zi 'they rum'

²⁰ Other numerals in the Kikkuli texts: 11-5-120 '3', pa-an-zao '5', na-a-uao '0' (- Ved, trio, páncao, *náuao).

[&]quot;Indruté- is also a priest (I. Daivāpa Šaunaka) in ŚB 13,3,3,4,4,1, also in SSS 16,7,7, 8,7 (at the horse sacrifice of Janameiava), as a pupil of Sruta (JUBr 6.20.8) (Macdonell and Kerth 1912.78-9). The semantics of the name are indirectly reflected also in voc. Indrativota- 'helped by you, Indra' (1.132.1, 8.19.16), a conflation of indra- and motif- ("tod-sitd-, cf. 1.112 tab toasa paraim maghasan priving didna / indratyotah satahyama prianvaiáh "With you, bounteous Indra, aided by you, may we overcome those who do battle over the foremost stakes,")

²² CF, also 8.19, tood navám tát te jánusá nátuvistamá indrativitá ridiomain "in that (brilliance) of yours might we receive ritual shares, (becoming) the best pathfinders by your power, helped (also) by you, Indra."

²⁵ Vedic has the simple thematic 490-ti [*HéuH-o/e-], whereas Latin has an 1-reduplicated present 1-1116, mage. The reduplication, originally proper only to the present stem, has been reinterpreted as part of a new Latin root and occurs in the entire paradigm (perf. $s+usi \leftarrow {}^{n}ou(a)+u\cdot ai < {}^{n}He\cdot Hous\cdot Ved. (ar-)$). The ist-conjugation pres. s-sun-might be explained from an earlier *sun-n- (cf. sub) IOVENT CIL 1 364) from a reduplicated athematic. *Hi-HouH-, with the survival of a reflex of the stem-final larvingeal as # (cf. Lat ani-ne: "hyers,") instead of joining the 3rd conjugation after weakening. An alternative would be to start from a thematic *Hs-HuH a/o of the bibit type (Specht 1938, 1944:53-6) The 1st conjugation form could then be explained as backformed from the compound ad-tuna- (cf. appellare zu pellere, Messer 1998 188). In this case the full-grade -ou- may be analogical with that of the perfect

²⁴ Garcia Ramón 1996:38-9; 2012.156.

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p.p.p. Ved. utá- (*HuH-tó') : \rightarrow Lat. (nd) i+ûto- > (°)iútus ptc. Ved. ávant- (*HéuH ont-) : \rightarrow Lat. (nd) i+uant- > (°)iuans -tu-stem Ved. dat. ávitave (*Héu2-tu-) : \rightarrow (nd) i+ûtu- > (°)iutum
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and the derivatives

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Ved. avitár· 'helper' (*Heus-tér·) : \rightarrow Lat. (ad) i+itor (Pl.+)

Ved. avitrf· 'helper' (*Heus-tr-ih<sub>2</sub>·) : \rightarrow Lat. ad-i+itoritor (Pl.+)

Ved. omán- 'protection''<sup>21</sup> (*He/ou(H)-men-) : \rightarrow Lat. ad-i+itmentum (Pl.+)
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The striking comparanda between Vedic and Latin, two languages which differ in so many respects, point unmustakably to a common inheritance, to be traced back at least to Core Indo-European. Furthermore, both verbs may express the same state of affairs, namely a human being helped by a god(dess), cf. for instance RV 5.51.13ec viiiv admin analysis amounts. Another in analysis amounts of the state of the st

(1) Ved. ássan: (referring, among others, to Indra): RV 6.18.9ab udávatá trákuañ. ...ptrzubátyáya ráthan indra sixha "with your helpful energy, up and mount your chariot, Indra, for the Vtra-smashing." ¹⁸ and, with figura strandigian, 7.46.2 c ássan árantir úpa no dáraú cara "come helpful to our helpful-minded" (of Rudra). ²⁸ For Latin cf. Cic. Fam. 7.2.0 meque dus iuuantibus ante brumam expectabit, ²⁰ Ter. An. 522 id spora adiatura dos. ³¹

(2) Ved. avitár- as epithet of Indra (10.24-3c índra storinám avitá, 8.13.26a, 6.47.11a), also of Agni (3.19.5 et al.) and Pūṣan (3.62.0 et al.), as well as fem. avitrá- (3x) of Heaven and Earth (2.32.1c bhūtám avitrá vidusah) "become the helpers of this speech" and of Sarasvati." In 1.atin, the simplex intay, intriv occur as the epithets of Jupiter g. The Indo-Tranian and Latin forms cited thus far only permit the reconstruction Hend'll. The the Greek (and additional Latin and Celtic) evidence points decisively to initial "b_{2*,3}" as Anatolian will confirm (§7). Lat. auad, -the 'to desire' (*b₂oµb,-taghe,-), which, in my opinion, belongs to the same root, clearly points to PIE *b₂oµb,-taghe,-), which, in my opinion, belongs to the same root, clearly points to PIE *b₂oµb,-taghe,-). The root is accusally represented in Anatolian in Hitt. bynati-phylag-th* to nun', as I shall try to show (§57–8). The original sense of *b₃oµb,-to nun', preserved in Anatolian and in some residual forms of Greek (s. below), developed two different meanings following two distinct semantic paths, namely [RUN] → [RELP] (Ved. av), fig. 1), (§5) and [RUN (FOR)] → [DESIRE] (Lat. auad, -the, probably, but not necessarily, through an intermediate [GIVE PREFERENCE]), with a former accusative of direction which becomes the object of "to desire". It tust turn first to the essentials of *b₂oµb,- (till now *Hast-I) outside Anatolian.

An initial *h₂-, i.e. *μεμΗ- is to be assumed on the strength of (a) ἀντως 'friend' (Theor.) and, indirectly, (b) Hom. ἐνηνής 'friendly.')." As to (a) cf. Theor. 12.14 των δ' ἐντωρων πλων ῶς καν δ θεσσαλός ἀντω ἀντωρι, 'll Hsch. ἀντως ἐντῶρος, and Alem. fr. 3; ἀντως κάλλα μελωνδυμένω: PGk. *αμ-182- is the counterpart of Ved. ανέιάν- (cf. Ved. sákhā. .. ανέιά RV 6.33-4,)." Lat. αμέιδεν - As το (b), Hom. ἐνηνῆς (εάλ. ἐντῶρος) 'friendly, ready to help' (*αμω-: *h'aving help ın humself'), 'ων points to PGk. *άμι/ω: (*½-βμΗ- ω: 'Ved. ἀνω-. Αν. αικιωβι-), 'n' also ἐνηνήνη 'll προυλίδρος 'vel. γενηνήνη 'll sho ἐνηνήνη 'll προυλίδρος 'νθ. ἐνηνήνη 'll sho ἐνηνήνη 'lll sho ἐνηνήνη 'll sho ἐνηνήνη 'll sho ἐνηνήνη 'll sho ἐνηνήνη 'll

²³Ved. omdn- 18 used to refer the favor of of Agni (5.43.13), of All Gods (6.50.7), of the Aśvins (1.34.6 et

al) The derivative ômātrā- 'favor' (10.50 5b mahim ta ômātrām kṛṣtāyo nduh) refers to Indra

²⁰ Cf As 15 ut nos nunc Mars advunet

²⁹Cf Pomp Mela, De Choroge, 2.78 in quo Herculem contra Alchiona et Dercynon, ...dimicantem cum tela defecusent ab invocato loue adustum imbre lapidum ferunt.

³⁸Cf. also 8.73.72 árantam grhám "a helpful house" (for Agm), 1.152.6a á dhenávo māmateyám ávantir "azding the son of Mamarā. the milk cows."

³⁹ Cf. 1.185 4a attapanana avasavants athe two [i.e. Heaven and Earth] who are never scorched, (always) giving help with their help.

[&]quot;Cf Cic Phil 3 36, Sal Iua, 85 48.1

³³Also with non-divine agent. Ter. Ph. 3. 4 usrus nobs restitut locum / borntasque vostra adiutans, Cic. Phil. to 4.7 et al. With explicit acc. Object Liv. 6.4.6.3 tom... re publica impessas adiutante.

¹²Cf also 6.61 4c dhindim aritry aratu, 7 96.2c, as well as sima: 'helper', epithet of All Gods (4.19.1)

and Venus, respectively, cf. lovs 1vr10st (CIL 9.551.1), VENUS IVTRIX (BMCI 4, p. 316). The same applies to addition¹⁰ (Cic. Tuse. 1.28 Tradardae frares,...non moderadutores...incitoriae populi Romani) and to adurtiris, which occurs as epithed for exact goodlesses: Cic. Dom. 144 Minerua, quae semper addurtis... exstitisti, Cael. 52 Huse factioni... Uenus addurtire case non debuit; 10 Ov. Met. 7.105 Hecate quae coepis conscia nostris addurtireae uentile.

³³ Also as the title of officials in inscriptions.

HCf. Tib. Eleg. 1.2.16 fortes admunt spin Uenus.

^{**}The assumption of "h_r- has nothing in its favor, pase LIV" s.v. *h_teuH- "helfen, fordern," supposedly connected with Hitt. isla(su)usu-*u recover', and different from *h_teu- "genießen" (Lat. subru), with pres. *h_tv-h_t-h_tuH-/h_tuH- (whence Lat. suusi, -ave)

¹⁶On this see Garcia Ramón 2012 with reference to Lat. access, «ne (*ad-kers-r-o/e-) 'to go forth' → 'to fetch' (Pl.+) and to PLE *nes- 'to come (where one will)' (Garcia Ramón 2004) → 'to desire': 'TB ñāsk-'res-shoe'), also TB #nes- -TA ñas' telsere' (Adlizaha 2007).

³⁷ A further argument in favor of *h₂- could be Gk. δε-θλεν 'prize', if from *h₂εμh₁-#³h₂- "objet de préférence, de valeur", "ce par quoi se réalise la valeur" (Pinault 2006:397-8).

^{**}Cf Schol.Vet. τα Theor." Αΐτης έπειδή τοις έρωμένους άντας ένιοι καλούσιν ώς οί Θεσσαλοί και γάρ Άλκμάν (fr 351) τας έπεράστους κόρας λέγει άίτηας οί δ' άίτης τους έταίρους.

^{99&}quot;Compagnon secourable" (Pinault 2006 402-3)

⁴⁰ Glossed as noños 'unid' (Schol D ad P 204), êmenrig et sim. Hisch. "êrgên; "noonjueis, injuduis, πυνετυές, êmenrig, basts 3-931 Πάτροκολον.... ός ei mulauré duan, τοῦ λαγλλέως ἐπαίορ της πος λαχιακής περποπραφμένο, τοῦ θολοίττην, τῶ σεμπαθεί, τῷ ἔνγείς, Sud. ἐνηέος : τοῦ πελαιο. καὶ ἐνηές, ὁ ποδος ἐνήκα. ἡ πραότης (García Ramón 1906/6.42-0).

[&]quot;The term every, referring to Patroklos (the évaips; par excellence) seems in complementary distribution

δειλοῖο / μνησάσθω). That Hom. οψής conceals *οἄμες- (and not *οεμες) is assured by the pair ἀίτας: Hom. ἐνηψής *(ἄμ ἶτιᾶ-:: *οαμο/ες-, *άμες) which matches the pattern of Θεοσίτης: "θέσσης θέσσης θέσσης.

As to the ultima largngalis, an argument in favor of "hp.gh." is Lat. au-for "be cager for, long (for), desire", "h which, though a synchronic stative in Latin (cf. au-idus), may be traced back to an mensive "hp.gh."-fie "long for ("h'un to/for"), whence Lat. aud- by Thurneysen-Have's rule. Lat. aud- has a perfect formal match in Olr. own d'protects' ("hom-hp.gh., -fig-"is), MW ry-m-aupy "mayest thou grant me", which reflects the sense "help, assist' of Ved. av/h and Lat. (")mud., dir. Lat. audins' cagerly desirous, avaricous, greedy' presupposes the existence of "nud- ("bp.(o)uh,-fb₂-: R. Garnier, p.c.), for which there is indirect evidence in Lvcian (8a).

Some plasses of Hesychius, Jabelled as Arcadian and Cyprian, support the existence of an appelative above 'course, race', with the athematic denominative allows: allows [ύνιές,] Κύπριοι δρόμου, ούνιος, ούντος δρομεία, κλέπτης, and inv. ούντη δείσο, δρόμε, "Αρκάδες Gk, ofvoc (i.e. *h-ouh-no-) turns out to be a part of the dossier of *h-euh-- even if it is not informative about the two larvngeals. On the assumption that the form underlies the second member of épi-púvioc, épi-púvioc⁴⁴ (Hom.+), an epithet of Hermes, a god who is a runner and a helper trar excellence. E. Langella has convincingly shown that the epithet is to be interpreted as 'the one who runs speedily' (literally "'who has a course at the highest level"), as well as 'the one who helps at the highest' (into 'high(ly)'). with reference to h.Dem. 407 εὐτέ μοι 'Ερμῆς ἡΙλθΙ' ἐρισύνιος ἄργγελος ἀμεύς (h.Pan 28/0 Εσμείου ξοιούνιου... / ... ώς ο γ'(ε)... βοὸς ἄργελός ἐστι) and to h. Herm. 28 Δμὸς δ' ἐσιούνιος φίδ' ἀποτιμήσω: σὶ δέ με ποώτιστον ὀνήσεις" etc. 45 The twofold personality of Hermes coroiving in Grace into points to a twofold meaning for oliver, and for *b.eub.-, namely 'run' (attested in the Arcado-Cyprian glosses), and 'help, assist' (as in several Core Indo-European languages).

with large*, largoes (García Ramon 2006:84)-3). largig* occurs only in acc. (fraigns larging 18.200, 17.204+), gen. (fraigns larging 20.23+), once dat. largin (log el el margini largin (log) biblirgm Tabl. ft. 2.9 apud Athen.

II 14) 28 against delegoes, which usually occurs in formulas in norm. sg. (leipoes, raigns, 4.266), norn. acc. pl. (fraigns deathon, drimage fraigns, 4.166), the only exception being [fraigns deathon] from circulors.

**García Ramón 1996, 2012. A root *no* 'test' is also assumed for Vedic. 19f. fivipius, -na* 'atc' (suppletive 2, 3 sg. of na* as per Hoffmann 1982-63-7, cf. Ved nappu- 'greedy (of food), dine- "nounshment"). Whether na* is to be traced back to a different root "fi₂-pg- 'denre' or to a specialization of na*/n is irrelevant at this 'vent.

Off. García Ramón 1996-45-6, 2012:157. Alter LIV* s.v. **hp.eu-"gemeßen" (hp.eu-fye-), de Vaan 2008 s.v. aws (**hp.eu-h; -*b cnpoy, consume"), Verner i Pons 2008 151 (**hp.e-th-fe- onginally "aver gaudit"), Schumache 2002:176-70 (In one of from "hunder").

**For *olsá from *bjanh, mbh, cf. ásos. isrá/Dor ásiá, Lesb. ásia, with denominative ississian, detiv. ásias, comp. ex-asia, circum. (Langella forthcoming)

"I angella forthcoming The term is glossed as 'helper' or as 'greaty serviceable', e'i adul in II. 20.34 (enouse, ... rini o'i. µera lorne voolerine vip µera po' "Eldres, ßenfir airvisi), table in Old. 332 (fancious lorne to Engels... que praculadors), e'in via le internativo air via fronça (si dell'angel). Elf p. 324 n. 7.00 (Bandouse Xhous, shahl), rabbacholy, e'he'ra le internativo air via fronça via via fronça (si lengue, s'un'ya airvis, µe'ya (... Ilach vi és) êternativo air via fronça, épisione, é µe'ya airlehlar distributionnesse nos il Euseis.

The evidence dealt with thus far lets us reconstruct the more precise Core PIE
*b.eub. 'to helo. assist' and to enlarge the list of comparanda given in %a'.

*b2cub1-	IIr. *HauH-	$: \rightarrow$	Lat. (°) $i+uuo/e-: \rightarrow$ (°) $i+uuare$
"h2(e)uh1-ent-	IIr. *Hauant-	$: \rightarrow$	Lat. (°)i+uuānt-
*h2uh1-tó-	Ved. ütá-	$: \rightarrow$	Lat. (°)i+ūto- > (°)iūsus
	(Near East) indrotá-		
*b26421-tu-	Ved. ávitave	$: \rightarrow$	Lat. supin. (°)i+situ- → (°)isitum
*bzeuz-tér-	Ved. avitár-	$: \rightarrow$	Lat. ad-i+stor
*h2cu2j-tr-ih2-	Ved. avitri-	$: \rightarrow$	Lat. ad-i+ūtrīx
*h2e/ouh1-men-	Vcd. omán-	; ->	Lat. ad-i+umentum (Pl.+)
*hzéuh1-es-	Ved. ávas-,	;	PGk. *ayes- (Hom. ev-mis*) and dirag
	Av. auuah-		
*h2ouh1-éio/e-	_		Lat. au-ëre 'to desire' : OIr. con oi
			'protects'
*h2ouh1-eh2-	_	$: \rightarrow$	Lat. auarus 'desirous, greedy'
h2ouh2-no-		:	οῦνος 'course', Arc. οῦνημι,
			Hom. έρι-ούνιος, έρι-ούνης

Note that two of the forms above (Lat. auere and PGk. %h2oµh1-no-) also point unmistakably to a sense 'run'.

6. At the time of the attestation of Ved. individ- in the Mittani sphere (14th cent.), no direct comparandum is attested in the Indo-European languages of Anatolian: no common term for 'to help, assist' is different, namely Hitt. yarry, yarrsis, denom. yarrni-, CLuv. yarraj-i-, HLuv. yarrija- (and Hut. yarrij)- 'help', HLuv. yarraj- 'help, aid')- 'θ Other lexemes for the same meaning occur in names that match the ermantics and word-formation of Ved. individ- (type Δuδ-δστος), namely Hitt. "Turfyu-mimma- 'avored by Tarhuut-' (cf. mimma- 'he' 'to regard, favor'), and, in the first millennium, Lyc. Masa-wartij)- 'regarded by the gods' (with ''wwrzij-', 'wwrwif-' of ''u-' 'to see, regard', cf. Hitt. ya-y-y-he' id.'), 'v 'But the fact is that Anatolian languages of the second millennium do not have a full match for '* 'βab-' 'helped'. The Anatolian reflexes of '*b₂eyh₁- at this time mean 'run' (\$7), as it is evident in the appellative CLuv. yhuta- 'haste', MHitt. yhti/da- ('*b₂uh₁-ud-, with lenition) which matches Ved. ''8td- only formally.

[&]quot;The term for help, and "ματική" cocurs only in a different type of reconnal compound with first member (X_{manus}, derry, person, causy). HLusv /Parm-wara/h_γ, i.e. DOMUS-m-sn/h-sn/s-help to the house(hold); /Indm-ματική- TONITRUS-s-ms/h-sn/h- help to Tarhunt ', FRATER & sn/h-sn/h- help to the brother', /Indm-ματική- (. AVUS & sn/h-sn/h- help to the grandfather'). See Me.chert 2013-18 with references.

⁴⁷Melchert 2013:41-2, 47.

- 7. PIE "heth", To help, assist' is represented in Anatolian by Hirt. phisus! hh", phis "ro run', CLuv | phis." "H.Luv. | puis." "(hi-ja-) 'id.' and, still in the first millennium, by Lyc. xuga-" stand close' (?, cf. \$8)." their erymology and stem formation are controversial, "b but their meaning is straightforward at least for Hirtic and Luvian, and the same applies, with a slight semantic shift to 'stand close', in Lycian.
- (1) Hitt. βμιμαι-βμής» To run, flec², CLaw, βμής» (+ HLaw, βμ²μ» 'κi², as well as Lyc. κεινω», may be traced back to Πε "δ₁κμδ₁» without any difficulty: initial "δ₁.: is reflected as β- in Hittite and Luvian, and as κ- in Lycian.³⁰ The stem-final *-δ₁- has no segmental reflex in any Anatohan language. Hittite and Luvian fit synchronically into the pattern of the type ddis/jtjia-, pidddis/pitijia-, and therefore may reflect an i-present ("δ₁κβ₂δ₁- i *-β²β₂β₃β₁- i *-β²β₂β₃β₃- i *-β²β₃β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃β₃- i *-β²β₃β₃- i *-β²β₃β₃-
- (3) Any reference to 'help' is expressed exclusively by means of (a) an explicit mention of yarrayi-'help', or (b) the lexicalized expression perms bywai-'no help' ("run ahead"), the causative perms bux/inn: 'send forth' (auxiliary troops'); so perms businjanalla- (c.) 'helper' ("going ahead/first') and gen. perms businjani (neutr. -yarr) of protection'. As to (a) cf. e.g. KUB 32,72 rev. 20 ya-ar-ya-si ud-sid-in-si] is-me-ci ma-ad-yb-an pa-ra-a-si-pu-ya-a-da-me as "so van the for a matter of assistance." Che same extension by [for Help]' in Hlav. *BONUS-si-i *HWI-ja-ta 'run for favor' (: abl.sg. ya-fa-ra-si) in the Babylon-Stele !-2 (pth cent.) yaj-ims-ta' 'TONITRUS. LALPA-pa-yaja']·n-fia bavaTONITRUS-da *BONUS-si-i *HWI-ja-ta *For me Halabean Tarfunzas run with favor" (Hawkins 2000;328-3).
- As to (b) cf. e.g. KUB 14.15 rev. ii 43'-4' [...ANA KARAŠ⁸¹] A Gl[R-i]t péraan hu-i-i-ja-nu-un "I protected my army" ("marched on foot in front of my army"). Cf. also KUB 2.1 obv. ii 23 ÅA La-ha-n-]na pé-n-an hu-i-ja-u-ua-n "LAMMA-n-"to Labarna, the tutelary god of running-ahead," which perfectly matches the theonym

- "Uuarraḥtaišala", the Luvian Stormgod of Help (cf. Luv. uarrai t , uarraḥ it 'help' : PIE *uerH-).
 - (4) Some special lexicalizations of forms belonging to *h2euh1- are also attested:
- (a) Hart. for humant- ('who is a) supervisor', i.e. "who runs above' (Hart. for, Lyc. Inro"), namely for hujanza estu 'let (the commander) be the supervisor', lexicalized from "let... (be) run(ning) above'. Cf. KUB 31.84 iii 60-1 (service instructions): [A-NA] /ma-a-an? NAAN R]A^{M-a}-ma ku ua-pi NUMUNIN-an-nu ii kini-zi nu a-di-ua-ri-ai EN-ai [[nu-u-ma]-an-ab-ai-la IGI^{101-a}-SU so ir [nu-ia-an-za-e-le-t-u "(If) the deportes are sowing seed somewhere, et the commander of the watchtower be supervisor (: obseruin) also of them all as to his eyes." Hitt. for [nu]ant- cannot be kept apart from Lyc. Int-susuuma (Intro" 'above') 'id.' (from "trunning above', i.e. 'the supervisor', cf. 88). 16
- (b) To be witness³, sasist³ from *Yo run together/with 'cf. NHG Aitlaufer, Sp. companiero de viaje), cf. CLav. dat.sg. figuajalli *UTU-i (gloss in the prayer of Muwa-tallis II to the assembly of gods (KUB 6.46 iv 33, NH), the epither of the sun-god equivalent to Hitt. kutru(guan)- 'witness' dat. kutrui *UTU-i (attested in the duplicate 6.45 iv 36): I NINDA.GUR, RA ½fgu-u-gu-ig-ai-la* *UTU-i pdr-i-i-ja-ai-gu-ai-si-ai-ai-n-si-ai-ai-ai-la* *UTU-i pdr-i-ja-ai-la* *UTU-i pdr-i-ja-ai-la* *UTU-i pdr-i-ja-ai-la* *UTU-i pdr-i-ja-ai-la* *UTU-i pdr-i-ja-ai-la* *UTU-i-ja-ai-la* *UT
- (c) Hitt. [hu-u-tar-la/i-/hūtarla/i-/, CLuv. hutarla-'slave, servant'," with deriv. hutarli(a)- (in. "blātar 'laste'). The same semantic path is recognizable in Lyc. xdataxa-(~sudataxa-) 'slave' '8 (\$9). This specialization anticipates the shift 'run' to 'help, assist'.
- 8. Lyc. sums., which cannot reflect a root formation "hydih, ti", "hydih, this," may be interpreted as the denominative from an a-substantive "suqua- (of the type "Co)C-dh), with 3,3g. [-sais] by extension from 3,pl. [-sais] "august ("-dipini)." The assumption of a "h[o]udh;- with continuants in Lyc. "suqua- and Lat. "sup4- (in sud-rus, §)) finds a parallel in Luxian, in the very same semantic field, namely Clux, usurath-si- noun usuranh-si- 'help', cf. the denominative (anda) usuraih-'to help, support' beside usur-), and in Lat. supposition "is help' beside supportias irs, and is perfectly conceivable in view of the same pattern in "hpugh, no- denom. Arc. simpus".
- Lyc, sware has two meanings which do not exactly match 'to run', but may be traced back to specializations of the original meaning—'to assist' and 'be related to',

⁴¹Rightly Laroche 1979:66, Carruba 1977:295 (references in Neumann 2007:142-3), paor Melchert 2004:86.

^{***}No good erymology ... available for hwwar-" (Jaanoff 2003;95). Some unsattsfactory proposals, to PIE "hyeth; 'blow' (another root-structure, the wind does not run; Puhvel [1991:420] connects the verb with Ved. sear, Horn. GR Tiputa, which is phoneneally impossible).

¹⁰ Lycian, moreover, excludes *h1-.

[&]quot;Jasanoff 2003;93-5. Hitt humas- instead of *hum- may be a back-formation on the weak stem 3rd pl. humanzi (*h.mb.) + 6nth) Alter Klockhorst 2008 167 (hardly convincing in terms of an *-oi-/-i- suffix).

[&]quot;The term reflects the sense 'flee', cf. KUB 3.4 obv. 11 31 na-al-mu-han hu-u-ya-si "he escaped from me."

 [&]quot;See Starke 1990 362-4. Cf. also HLuv [nutilama(f)]- to nerative nutila- (hexatantly Hawkurs 2000;346).
 "No connection with the alleged προθέω in Il. 1.291 τοῦνεκά οἱ προθέωσον ὁνείδου μιθήσποθου (pace Pulvel).

[&]quot;Cf the parallel construction in Cic. Att. 12.3.2 survey ne iste . . . 'Aximp subsidio current.

¹⁶Melchert 2004 s.v Lyc. Inxxiiima-.

¹⁷ Eichner 1981.58-9, Starke 1990:364.

⁴ Eichner 1983:58-9, Starke 1990:363, with -(a)za-suffix, cf. kumaza- 'priest' (· kuma- 'holy')

[&]quot;This reconstruction is incompatible with the -a- of name, which cannot be the reflex of "-h₁- in any form of the paradism.

^{**}C.f. Hapal 1995/190-1, who stresser the coessstence of homonymous nouns and denominative verbs in Lycain, cf. humana-pricas': kimmana-"to be pricas', fa-'dead': fa-"to be dead', "nhima-'command, prohibition" ("filman-d-" "shj.-man-d-): himna-" to bund, prihaman-"(grave)house' prihaman-" to construct'

⁶¹ Starke 1990:155-7.

both matching epytorarse, about "to stand close to" (set sim.) in the Greck version of the trillingual inscription of Xanthos: (N 320.1) st-de: Estimipije: xumatisti: yje-i, rendered in the Greck version as sai e a Zudiae epytorarse yh vio mistra zgobou (320G.9-to) "and whoever may stand closest to Simias for all the time." Ct. epyto (naw)bervious to stand close to '+ dat. (Assch.). as' The sense 'stand close 'may be traced back to "run together with' with two possible special nuances: (a) "who assist/attends him (as priest)," and (b) "who is related to someone," either a son (: ndeimi), or a young brother (: ephthimisely-). 9!

Both senses may be assumed for 3rd sg. xumati in the funerary inscription of Kaq (Ro.-3) set-im sitep title title neede xumatis in ener im-one [Tip] as tabidi se Malija brixiansama "... and one may not put introfbury (siteps titles) someone, who does not xumati. If not, so will the God Trqqnt- punish him, and also Malija (: Athena) brixiansama-." 3rd sg. xumati may be understood as (a) '(the one who is) a relative (callaborator (cf. xuldazae 'servant, helper' 5y), or as (b) '(the one) who has an agreement/license' (to be placed in a grave), which would fit into the formulary of grave inscriptions in Lycia and would match the frequent συγχωρού of Greek inscriptions of Lycia 244.

As to the difficult form bri-scusianae-, we assume that it is a form of a participle or *-mo- derivative, with the preverb bris* on, above! Gk. èpo* 'high, highly' (loc. **ger-ji)* which strikingly matches Hitt. bri pugants- the supervisor's Le. **(the one) who runs above! **o Lyc. bri-scusianae-, as an epithet of Malija, the Lycian Athena, has close parallels in the Greek epithets of Athena émisones (Solom), Iléra' 'Admédous émisones (Ant.Gr.), émisones (Nonnus), as I have tried to show elsewhere, **or and is certainly connected with Gk. 'Eposiose, 'Eposiose, the epithet of Hermes (§5).

To sum up: the meanings of Lyc. xnnn-may be explained as semantic developments of 'to run', namely 'to assist', which occurred in Anatolia, in this very language, in the first millennium, and not before (8γ). The plausible reconstruction of *hyouh, no-lower before (8γ). Let xnnn-" in autrus' eagerly desirous') and of *hyouh, no-lower klmpan δρόμου et sim.) and its occurrence with locative *series (Lyc. bri-xnnnnma-, Hitt. ter hujant-, Hom. δρ-ούους) point to the existence of a phraseological pattern limited to Anatolian and Greek (cf. \$10).

The semantic pathway [(ADVERB) RUN] to [HELP] is in fact paralleled by other Indo-European lexemes for 'to fly' or 'to run', which mean 'help, assist', with no trace of motion, especially with some preverbs. Some instances:

- (1) PIE *peth₂· 'to fly': Hirt. piddai-/pitsija- 'tun', also 'flee', ⁶⁸ Lat. suppetô, -ere 'to turn up as a support, give backing (to)' with variant suppetias fre with sub', ⁶⁹ and no trace of motion, e.g. Pl. Epid. 397 omini omnes suppetint res prosperae. ⁷⁰
- (2) Lat. sub-currō, -ere 'to help': cf. Verg. Aen. 1.630 non ignara mali miseris succurrere disco."
- (3) Hom. ἐπίκουρος (*°λωτ»-ό-, cf. Lat. currere), with denominative ἐπικουρέω, as well as βοηθόρς 'who runs (to the call) for help' (°θοος), with denom. βοηθέω, Class. Gk. Βοηδοωέω.
- (4) OIr. foreith 'succurrit', 2 OW guo-rit 'id.' (cf. Lat. rota 'wheel', Ved. rathá-'chariot'), do reith 'accurrit'.

The semantic shift from [RUN] (to somewhere/someone) to [ASSIST, STAND BY] may happen even without an adverb, as seen in Lycian xusuum. (\$8), and is supported by e.g. Go. piu-magus' servant' (PGmc. *pe/gjua-'id.', which matches Ved. takwi-'swift' to "set". (Ved. tak., Olr. teishid, Lith. tektii 'to run, flow', OCS trift). (1)

To sum up: the semantic shift [(ADVERB) RUN] \rightarrow [HELP, ASSIST] we propose for ${}^{*}h_{p,e}uh_{r}$, normally but not necessarily with an adverb (Lat. uh_{r} , nd_{r} , Gk. em, Olr. f9), as well as \rightarrow [ASSIST (someone)], [STAND CLOSE TO]: with ABOVE (Hitt. her, Lyc. hri^{*} , Gk. $\delta_{r}n^{*}$) is supported by comparative evidence.

^{9.} On the strength of the evidence presented above, we may assume that PIE '9stub, originally meant 'to run, hasten', as still attested in Hittite and Luvian, and that the meaning 'to help, assist' found in the other IE languages (Ved. div-ae: Av. auu-ae, Lat. (ad)iuu6, -drr..., \$4) reflects a semantic shift in 'Core Indo-European': the early sense 'to run' is still recognizable in Horn. 'Epoiones, and in the Arcadian and Cyprian glosses and, indirectly, in Lat. nuc6, -drr, and audirus

⁶² Εμπ. 646 διά πέλους δέ σει φύλεξ, / έγγις παρεστώς "and I will stand close to you forever, as your guard ..."

Cf. Pers. 646 έγγις έσταντες τάφω "standing close to my tomb."

⁶¹Cf Starke 1990 350 n. 1236 ("und wer dem Eseimijaje (Simias) jeweils verwandt ist")

⁶⁴ CF for instance TAM II 69-70 [ἐπὶ τῷ τ εθῆναι πμιᾶς αὐτούς [καὶ] τὰ ἐξ ἡμιῶν κ[αὶ ο][ς ᾶν αὐτοί ζώντις / [στιχ] (υσήσομεν ἔτερος δε ἔξοιρίαιο οὐχ ἔξει. Further instances in Garcia Ramón 2015 139 with nn. 50, 51

[&]quot;Cf Wills 1999.95-6. The form is artested also in Gk. pion 'promontory', Myc. PN ri-30 ("srijo-, cf. Heubeck 1964).

⁶⁶ García Ramón 2015 130-5. Aluter "der Ober Nahestehende/am nachsten Stehende" or loc. to hruxuswima-"in supervision" or "super intending" vel sim. (Melchert per litterus)

⁶º García Ramón 2015 135.

of Warkins 1975, 93, of for the data CHD P 353-5.

^{**}Lat sub** also adds the noemes [APPROXIMATION] (sub-gradior 'come close up (to)') and [DIRECTION DUWARDS] (sub-subi 'pump up', sub-subine' fly upwards' vs. de* 'down'). On the other hand, succide' to go up' and 'to no under'.

⁷⁰Cf. also Lu. 2,66.8 lingua non suppetebut libertati animoque, and sup-petias in/inenire (alicius) 'to go/come to help' (Watens 1975;93-4), suppetias fire (alicius) 'to be of help', e.g. 'Pl. Meni 1020 ribi suppetius temperi adueni modo, Epid. 659 memento suppetius miln...firer (alico Epid. 677, later alico suppetius Paul.)

[&]quot;The original character of verb of motion is still recognizable in Classical Latin (cf. Caes Gal. 544-9 Section of the Commiss allowants subsent), also with subsense, which is not always a verb of motion (cf. Pl. Cae. 33) quits make subsenite steppe and captate and exemples "Who will help me, my back, my head, my legs"

[&]quot;M.Wess kindly indicates to me that the original meaning 'run under' survives in Andacht Morainn 56-7 fonnath fud-rethat "the wheel cams which run under him." Cf. also MN Voreto wrius.

³ Eichner 1983:59, cf. also Brugmann 1906 380 with further semantic parallels

10. The Anatolian evidence allows us to enlarge the table of the reconstructable forms for "b,eµh₁- given in \$6. Here are given a selection of those relevant for the chronology of the semantic shift from [RUN] to [HELP] in Core Indo-European:

PIE: Anat. 'to run' \rightarrow Core IE 'help, assist' " $b_1e\mu b_1$. (\rightarrow)Hitt. $b_1\mu\mu ai$: b^{ij} II ran. " $Ha\mu H$: \lor Cod. av'/μ : \rightarrow Lat. " $b_1o\mu b_1$ -no ofton... $b_0i\mu a_i$, oftong, oftong, oftong doquesig *av'(i) $b_1e\mu b_1$. Hitt. Iev $b_1\mu an$ 1-Luc. Iev $b_1\mu an$ 1-Luc. Iev $b_2\mu an$ 1-Luc. Iev I

*seri h20µh1-no- Hom. 'Ept-oùvāς, 'Ept-oùv-toç

We can therefore conclude that PIE "h_peyh_r 'run', an inherited lexeme, had still retained its original meaning when Anatolian separated from Proto-Indo-European. The semantic shift to 'help, assist' is a Core IE innovation, not shared by Anatolian. This is especially evident in the case of a perfect formal equation, the reflexes of which stand in sharp contrast from the semantic point of view in Hittite as against Veduc and Latin, annely PIE "h_b(plub, rn: + Hitti, hijmain." "running" (intransitive) has been lexicalized as 'h'miant- 'fugitive', cf. KUB 26.17 obv. ii 4' nn kuil 'h'mia-anaton and ha-nn h-mi-i-hi-i-anaton and ha-nn h-mi-i-hi-i-ananon and ha-nn h-mi-i-hi-i-ananon hu-ni-pan-hi-anaton and ha-nn h-mi-ph-mi-i-hi-ananon and ha-nn h-mi-i-hi-i-ananon hu-ni-pan-hi-ananon hu-ni-pan-hi-ananon ha-ni-hi-ping' (transitive) and Lat. (adjistusum' ld.' (and frequentative adistants) are fully synonymous and reflect the meaning 'help' (\$4-), cf. RV 0.8. pols uddants trakisasi ...instra "with your help-ful energy... Indra" and Lat. dis isuantibus (Cic.+). The same applies to the formal match CLuv. butas "haste' (MHitt. būt/da-) as against p.p.p. Ved. 'šūt-'helped', Lat. (adistitus (87-x).

The contrast between Anatolian and the languages of Core Indo-European in the terms for 'run' and 'help' is clear. In Anatolian of the second millennium, where the reflex of "hspub, retains the meaning 'to run', the terms for 'help' (Hitt. yarr, yarreit', (anda) yarrai, 'HLuv. yaria, 'CLuv. yarrahir') are expressed by another lexeme, namely PIE '(byarth-'to pay attention, to assist' (of Hom. -bac'story). In Core Indo-European, where "hspub, has shifted to 'help', 'to run' is expressed by other lexemes: 'Ved. yard-, abh-dhār', Gk. blu. yārgulbayari, Lat. carrd, Olt. reithia' 'runs'. The sense 'to run, hasten' of "hspub,- still survives residually in Core IE languages, namely in the glosses olive Kinpin biquin, vinty belipo. bahae, Hom. booloves, and also in Lat. nabr' (desire' ("run to'), audrus.

A final remark is in order: the evidence of Anatolian and Greek permits the recon-

struction of a concrete phraseological pattern, expressed by means of two identical lexemes (loc. *str(-i) 'above', *hzeuh-r'tun', the latter with different formations), with an identical semantic shift in Anatolian, namely

[ABOVE RUN] → [ASSIST]? → [SUPERVISE, OBSERVE]

The pattern is recognizible in Hirt. In busantsa efta Het him supervise', Lyc. brixusumma-'supervisor', an epithet of Malija, and Hom. êpr-ovose, êpr-ovose, an epithet of
Hermes, a god who runs and helps at the highest degree (6x³), which reflects both the
old and the new senses of *bpouls-no-. The formal coincidence between Anatolian and
Greek in the phraseological pattern may result from areal contact or be understood
as Anatoliansm in Ionic Greek. Whether the epithet 'Bp-ovings' has been continued
witin Greek by PGk. *soberi-gerH-(o)-: Ion.Hom. (psilotic) épi-spoe, 'favorable': Myc.
MN eri-me-re [Brimber-] and ém-éposoe; pleasing, acceptable' (Od. 10-343), pose-Hom.
'assisting' remains an open question.

xx. The presence of Ved. indrató- as /Indra-ūta-/ in the 14th-century Mittani realm, i.e. at the time when it may be assumed to have been current in Old Indo-Aryan (Ved. while 'she'; Indo-Irania "Pfauf-: PIE "hg.ph.') is particularily remarkable: in the Anatolian languages of the second millennium PIE "hg.ph.' is well attested, always with a different sense, namely 'tun', as clearily shown by the contrast between Hitt. "hujans- 'fugitive' ("runner') and Ved. drant- 'helpet', and there is no compounded mame marching the type and the verbal lexeme of "indra-tid-I-This shows that the term for 'to belp' in Core Indo-European ("hg.ph.') already existed in Indo-Aryan or Indo-Iranian ("Hauf-I) and had been exported to the Near East before ca. 1400.) i.e. as a time when Anatolian still preserved the old sense 'to run' for that lexeme.

The sharp contrast between the semantics of the Anatolian reflexes of *\(^h\eta_pub_t\), and that of all the other languages in which the lexeme has survived points to a semantic shift which had still not taken place in Anatolian, namely 'to run' \rightarrow 'to help, assist'. The shift, which implies in fact a non-trivial common innovation of Core Indo-European not shared by Anatolian, joins other instances of similar shifts, like that of Fle *mplok*t** 'twilight' (Hirt. nobus** 'twilight' [morning and evening], an dwsk. mivine 'to become twilight') \rightarrow Core IE 'night' (Lat nos, Gk. vic, Ved. nobra studies' injeht and dawn', etc.)\(^h\) or that of FIE *\(^h\)pole*_1\(^h\), "\(^h\)pole*_1\(^h\). To take a gulp' (momentative: Hitt. Lux, pal(j)."" 'to swallow', NHitt. pappul* 'id.') \rightarrow Core Is 'trink' (pres. *\(^h\)pole*_1\(^h\)pole*_1\(^h\).

^{**}Any connection with fugants-'wind' (*hzmln#:, cf. Ved. nltú-, Lat. mentur; IE *hyudh: 'blow', cf. Ved. nltú-, ik ñun'), being formally possible, is hardly convincing given the difference in semantics and collocations.

³⁷As pointed out separately by C. Melchert (forthcomang, with reference to Plinault 1990:181–90 for Tocharian) and H. Eichner (2015:17). The Hittatte term for 'night' is oftent- (cf. Intp- 'darkness, mght' : YAv. OP Zien.

[&]quot;θ.Hirt. else."" 'το dennic' and Tocharian AB yek 'id.' (with suppletive aor. muk-) reflect PIE (durative) "h_e(e/b_e)g⁽ⁿ⁾-'id.' (Kim 2000:164-5). The Core Indo European innovation was to integrate "pe-ph₀ 9/e (ong mally 'to take guight repeatedly'): nearise Aktionary in the framework of an aspectual opposition as against

*h₂μμh₁· 'to run' to Core IE 'to help, assist' the presence of /Indra-ūta/ in the letters of Amarna (14th century) provides us with a terminus ante quem for the innovation, which can only be welcome.

Abbreviations

- CHD = Gitterbock, Hans G., and Harry A. Hoffner (eds.). 1989 The Hittite Dutonary of the Oriental Institute of the University of Cheago. Chicago: The Oriental Institute of the University of Chicago.
- LIVⁿ = Kümmel, Martin, and Helmut Rix (eds.). 2001. Lexikon der indagermanischen Verben: Die Wurzeln und ihre Primarstammbildungen. 2nd ed. Wiesbaden: Harras-sowitz.

References

- Brugmann, Karl. 1906. "Zu den Benennungen der Personen des dienenden Standes in den indogermanischen Sprachen." Indogermanische Forschungen 19:377-01.
- Carruba, Onofrio. 1977. "Commentario alla Trilingue licio-greco-armena di Xanthos." Studi Micenei ed Egeo-Anatolici 18:273–318.
- de Vaan, Michiel. 2008. Etymological Dictionary of Latin and the Other Italic Languages. Leiden: Brill.
- Eichner, Heiner. 1983. "Etymologische Beiträge zum Lykischen der Trilingue vom Letoon bei Xanthos." Orientalia 52:48-66.
- 2009. "Parallelen zu indoiranischen rehgiösen Konzepten in Texten der Hethiter." Zarathustira entre entre l'Inde et Plram: Enudes indo-iraniennes et midoturopéennes offerses à Joan Kellens à l'occasion de son 6s' anniversaire, cd. Éric Pirart and Xavier Tremblay 57–67. Wiesbaden. Reichert.
- —. 2015. "Das Anatolische in seinem Verhältnis zu den anderen Gliedern der indoeuropäischen Sprachfamilie aus aktueller Sicht." In Diadornie und Sprachregische Beirings aus der Arbeitugruppe "Historisch-vergleschende Sprachwissenschaft" bei der 40. Osterreichuschen Linguinisktagung 2013 in Salzburg, ed. Thomas Krisch and Stefan Niederreiter, 13-26. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Finkel, Irving L. 1985. "Inscriptions from Tell Brak 1984." Irag 47:187-201.
- García Ramón, José Luis. 1996. "Lat. autre 'descar', (ad) iuuāre 'ayudar', c IE *bzeuh; 'dar preferencia, apreciar'." Akten des VIII. Internationalen Kolloquiums für Lateinische Sprachwissenschaft, 32–49. Heidelberg: Winter.
- --- . 2002. "Zu Verbalcharakter, morphologischer Aktionsart und Aspekt in der
- 201 *peh; A PIE suppletive paradigm with pres *the(h2)g*b :: aor, *peh(t)- remains plausible (García Ramon 2002 123-6)

- indogermanischen Rekonstruktion." Indogermanische Syntax: Fragen und Perspektiven, ed. Heinrich Hettrich, 105-36. Wiesbaden: Reichert.
- . 2004. "Zum Paradigma von idg. "nes- 'heimkehen': homersch åmsåavanv. kausat. åmsåavanvar als Aoriste von (")»õpaa und die Entstehung des Pras. saio." In Analetea homini universali ditata: Fotderiff für Onvald Panagl zum 65. Geburts nag, ed. Thomas Krisch, Thomas Lindner, and Ulrich Muller, 1.33–47. Stuttgart: Akademischer Verlaz.
- 2006. "Hitta usere. "ayudar" y kurija-^{no/ta} 'mostrar benevolencia', hom. ²joa dośen (y zóno dośen) 'dar sastisfacción', 'E *uerH- 'favorecer' y *²jf*er(H)- 'estar a gusto, descar'." Studi linguistici in nonre di Roberto Gismani, cd. Raffaella Bombi et al. 3.83x-46. Alessandria: Otso.
- 2012. "From RUN to DESIRE: Lat. auére 'desire, be eager, long (for)' and "h₂auh," trun (to/for)', Lat. auererer 'go forth', 'fetch' and Toch. B näuk-'desire', Ved. avi;-yi-' 'greedy'." In Per Roberto Gusmani: Studi in ricordo, ed. Giampaolo Borehello and Vincenzo Orioles. 2,152-66. Udine: Forum.
- —. 2015. "Licio, griego, indocuropeo: I. Lic. epinien/i- hermano menor', lat. opiter, aaa. aftero, IE "h.op(i)- 'después, derrás', II. Lic. tutue' 'poner (en pie)', IE "θ()tehya-. III. Lic. Malija brivanwana- 'Malia supervisora' (: Atena énievono, èniosono, èniosono,), hit. sêr futuai-, hom. êp-visoro," In Genera trigraphiques et languer d'attestation fragmentaire dans l'espace méditerranten, ed. Ermanuel Dupra: and Wojciech Sowa, 117–38. Rouen: Presses universitaires de Rouen et du Havre.
- Hajnal, Ivo. 1995. Der lykische Vokalismus: Methode und Erkenstnisse der vergleichenden anatolischen Sprachwissenschaft, angewandt auf das Vokalsystem einer Kleinkorpussprache, Graz: Levkam.
- Hess, Richard S. 1993. Amarna Personal Names. Winona Lake: Eisenbrauns.
- Heubeck, Alfred. 1964. "Idg. "sår- 'oben'?" Orbis 13:264-7.
- Hawkins, John David. 2000. Corpus of Hieroglyphu Luwian Inscriptions: Inscriptions of the Iron Age. Berlin: Mouton de Gruyter.
- Hoffmann, Karl. 1982. "Vedica 3. dvayas, ávayat." Munchener Studien zur Sprachwissenschaft 41:63-7.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda: The Earliest Religious Poetry of India. New York: Oxford University Press.
- Jasanoff, Jay H. 2003. Hittite and the Indo-European Verb. Oxford: Oxford University Press
- Kammenhuber, Anneliese. 1968. Die Arier im Vorderen Orient. Heidelberg: Winter.
- Kellens, Jean. 1974. Les noms-racines de l'Avesta. Wiesbaden: Reschert.
- Kim, Ronald. 2000. ""To drink' in Anatolian, Tocharian and Indo-European." Historische Spruchwissenschaft 113:151-70.
- Klockhorst, Alwin. 2008: Etymalogical Dictionary of the Hittite Inherited Lexuon. Leiden: Brill.

- Langella, Elena. Forthcoming. "Hermes 'Bosolomoç: Una nuova interpretazione." Historische Sprachwissenschaft.
- Laroche, E. 1979. "L'inscription lycienne." Fouilles de Xanthos 6:49-127.
- Macdonell, Arthur A., and Arthur B. Keith. 1912. Vedic Index of Names and Subjects.

 London: Murray.
- Malzahn, Melanie. 2009. "Tocharian desire." In Verba Docenti: Studies Presented to Jay H. Jasanoff by Students, Colleagues and Friends, ed. Alan Nussbaum, 237–49. Ann Arbor: Recch Stave.
- Mayrhofer, Manfred. 1974. Die Arier im Vorderen Orient ein Mythos? Vienna: Verlag der Österreichischen Akademie der Wissenschaften.
- . 1983. "Indogermanische Chronik, n° 152a." Die Sprache 21:316.
- Meiser, Gerhard. 1998. Lateinische Laut- und Formenlehre. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Melchert, H. Craig. 2004. A Distinuary of the Lycian Languague. Ann Arbor: Beech Stave.
 2013. "Naming practices in 2nd and 1st millennium Western Anatolia." Personal
- Names in Ancient Anatolia, ed. Robert Parker, 31–49. Oxford: Oxford University Press.

 ——. Forthcoming. "The position of Anatolian." In Handbook of Indo-European Stud-
- ... Forthcoming. "The position of Anatolian." In Handbook of Indo-European Studies, ed. Andrew Garrett and Michael Weiss. Oxford: Oxford University Press.
- Neumann, Günter. 2007. Glossar des Lykischen. Revised and edited by Johann Tischler. Wiesbaden: Harrassowitz.
 Pinault, Georges-Jean. 1990. "Notes sur les manuscripts de Maitreyasamiti." Tocharian
- and Indo-European Studies 4:119–202.

 ——. 1998. "Le nom indo-iranien de l'hôte." In Sprache und Kultur der Indogerma-
- nen; Akten der 10. Fachtagung der Indogermanischen Gesellschaft, cd. Wolfgang Meid, 451–77. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- 2006. "Compétition poétique et poétique de la compétition." La langue poétique indo-européenne, ed. Georges-Jean Pinault and Daniel Petit, 367–411. Leuven: Peeters.
- Puhvel, Jaan. 1988. "An Anatolian turn of phrase in the Hiad." American Journal of Philology 109:591-3.
- 1991. Hittite Etymological Dictionary. Vol. 3, Words Beginning with H. Berlin: Mouton de Gruyter.
- Rainey, Anson F. 1970. El-Amarna Tablets, 359–379. Supplement to J. A. Knudtzon, Die El-Amarna-Tafeln. Neuktrchen-Vluyn: Neukirchener Verlag des Erziehungsvereins.
- Schumacher, Stefan. 2000. Historical Morphology of the Welsh Verbal Noun. Maynooth: Maynooth Studies in Celtic Linguistics.
- Specht, Franz. 1938. "Lat. iuvare." Zeuschrift für vergleichende Sprachwissenschaft 65: 207-8.

- —. 1944. "Noch einmal lat, iuvare." Zeitschrift für vergleichende Sprachwissenschaft 68:52-7.
- Starke, Frank. 1990. Untersuchungen zur Stammbildung des keilschrift-luwischen Nomens. Wiesbaden: Harrassowitz.
- Verner i Pons, Mariona. 2008. La segona conjugació verbal llatina: Estudi ctimològic i comparatiu sobre l'origen prosoindoeuropeu de la formació dels seus temes verbals. Barcelona: PPU.
- Watkins, Calvert. 1975. "Some Indo-European verb-phrases and their transformations." Munchener Studien zur Spruchwissenschaft 33:89–109.
- Willi, Andreas. 1999. "Zur Verwendung und Etymologie von griechisch épi-". Historische Sprachwissenschaft 112:86–100.

80 8r

The Sanskrit Source of the Tocharian 4×25-Syllable Meter

DIETER GUNKEL

I Tocharian meter as an indigenous tradition

Were Tocharian meters influenced by Indic meters, and if so, to what extent? Since the outset of Tocharian studies, the prevalent opinion has been that the Tocharian metrical tradition, which is shared by both Tocharian languages, is independent of the Indian tradition. In Sieg and Siegling's original formulation, "Die tocharische Metrik scheint selbständig dazustehen und nicht der indischen entlehnt zu sein" (1921:x).1 The supposed independence of the metrical form of Tocharian poetry may seem surprising given that the poetic texts are translations and adaptations of Buddhist Sanskrit originals. Furthermore, the Tocharian Buddhists did adopt the form of narration known as campu, in which prose and verse alternate.2 However, Tiberan shows that it is possible to retain and modify indigenous meters for the translation/adaptation of Sanskrit texts.

Two distinctive differences between Sanskrit and Tocharian meter are taken to advocate the latter's independence. First, Tocharian meter does not seem to regulate syllable weight. Second, Tocharian verse-internal cola, i.e. the metrical units delimited by caesurae, are only 3-6 syllables long, which is shorter on average than Sanskrit cola, to judge from the traditional metrical treatises. For example, four of the five most common Tocharian meters are matched with respect to verse length in syllables by eight relatively common Sanskrit meters.3 The average Tocharian colon length is

See also Watkins 1999:614 ("There is no obvious external contact source for Tocharian meter, the system of isosyllabic verse lines rigorously divided into even or uneven cola, and organized into four-line stanzas") and Pinault 2000;153 ("Le système de versification, en dépit des termes d'origine indienne, est totalement etranger à celui de la métrique du sanskrit")

2On the Tocharian adoption of camps, see Pinault 2008.407

34Relatively common" is here defined as belonging both to Velankar's (1949b) "list of metres used for continued narration" and Hahn's (2014) list of "the 25 most frequently used Sanskrit meters." For the cola of the Tocharian meters, which have strophes of 4 verses of 12 syllables ("4×12"), 4×14, 4×15, and 4×17, see Pinault 2008:399, Bross, Gunkel, and Ryan 2014; and Peyrot forthcoming. Velankar (1949a) gives the cola of the Sanskrit comparanda, i.e. the 4×12-syllable Drutavilambita, Pramitiksani, and Vamiustba, the 4×14 Vasantatslaka, the 4 × 15 Mälini, and the 4 × 17 Narkutaka, Mandakranta, and Harmi

4.4 syllables versus 8.9 in Sanskrit. The second difference has emerged more clearly as further caesurae have been identified in various Tocharian meters. Let me briefly illustrate this and introduce the Tocharian 4×25.

2 The Tocharian 4×25

Sieg and Siegling (1921:x-xi) first described the Tocharian meter whose stanza consists of four metrically identical 25-syllable verses/padas, which they dubbed the "4×25." It is one of the best-attested meters in both Tocharian A and B. In a sample of 3,102 padas of Tocharian B poetry drawn from CETaM, it is the best-attested meter by syllable, making up 17.8% of the sample.5 Sieg and Siegling identified caesurae (1) after the (th. 10th, and 18th syllables (a) of the verse/pada:

According to their description, the pada consisted of four cola of various lengths, which we can represent shorthand as \$\sis_1^2\sis_1^8\rightarrow\$. Stumpf (1971:71-2) identified two further caesurae after syllables 14 and 22. These are sometimes considered to be "minor" or "secondary" caesurae () that divide cola into subcola (e.g. Pinault 2008:398-9), though the diagnostics for their minor status are partly problematic (see below):

Stanza 15 of the story of the nun Sundari (THT 15 a7-8 + THT 17 a8-b2), from the eighth book (the Vācaparga) of the Tocharian B Udānālankāra, recently edited with translation and commentary in Hackstein, Habata, and Bross 2014, exemplifies the meter. Padas are printed on two lines for typographical reasons, caesurae and junctures involving clitics (-, +) are marked, and restorations and emendations are in parentheses and square brackets, respectively. The pada-final punctuation and the stanza-final numeral arc original, in accordance with the Tocharian scribes' usual practice, which facilitates the identification of the meter in more fragmentary contexts.

sū temeň sraukam | nraine tánmastár | māka lykwarwa i māka cmela māka lkāssam i laklenta : māka pudňákti 1 tsańkam śaissene 1 şárpsentär-ne i ālyauce+ka i nraişşe wnolme tallantă: spelke sompastår | krentats sû wnolmets | năki welñe i preresa ceu i aunassan-me i arañene :

*If we disregard "minor" caesurac (\$2), the Tochanan average is 5.75

^{&#}x27;The ten best attested meters by syllable in the TB sample are 4×25 (17 8%), 4×14 (11.9%), 4×12 with 5+4+3-syllable cola (11.8%), 4×15 (10.9%), 4×17 (9.6%), 4×18 (9.2%), 21/21/18/13 (6.6%), 13/13/13/21 (5.1%), 4×12 with 4+4+4-syllable cola (3.6%), and 14/11/11/11 (3.1%).

aiśamñe spaktā(m) | ślek+ompalskoňňe | cowai ram+no i tärkana[m-m]e | palskossana i krentauna 15

[Richter jemand gegen einen solchen Tadel und Verleumdung, die gegenstandslos ist.] und stirbt dieser deswegen, so wird er in der Hölle wiedergeboren, viele Male, und erlebt viele Wiedergeburten und Leiden. Erheben sich viele Buddhas auf der Welt, so weisen sie einander auf dieses ungluckliche Hollenwesen hin. Den Eifer raubt ein solcher den guten Wesen. Mit diesem Pfell des Tadelaussprechens trifft er sie (die Guten) ins Herz. Wissen, religiosen Dienat sowie die Fahigkeit zur geistigen Versenkung (Meditation) raubt er ihnen gleichsam, und somit die geistigen Güter. (Hackstein, Habara, and Bross 2014:33)

The caesurae are quite strict, as can be seen from Figure 1, which plots the incidence of verse-internal word boundaries in the 4×25 . The TB data are based on a corpus of 217 partly fragmentary pädas drawn from seventeen texts. The TA data are based on a smaller corpus of forty non-fragmentary pädas drawn from fifteen texts. 7 Junctures preceding enclitics and following prochitics are not counted as boundaries. The incidence of boundaries is predictably similar: a Spearman's rank-order correlation yields a strong, positive correlation ($\rho = .89$), which is statistically significant ($\rho < .0001$). The overlapping error bars also give a sense of how insignificant the differences between the two data sets are. The high incidence of word boundary after syllables 5, 10, 14, 18, and 21 reflect the cassurae.

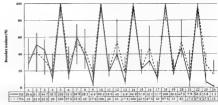


Figure t. Boundary incidence in the Tocharian B and A 4×25.

A case can be made for the minor status of the cassurae after syllables 14 and 22. As discussed by Bross, Gunkel, and Ryan (2014:3-1), the volability of caesurae is currently the only reliable way to distinguish between major and minor caesurae. While the poets realize the caesurae after syllables 14 and 22 at least 96% of the time in both TA and TB 4×35 , they are nevertheless volated $6\times$ as frequently as the other, major caesurae, and the difference is statistically significant (Fisher's Exact Test p=0.013).

	Respected	Violated	N
primary (after o 5, 10, 18)	568 (99.6%)	2 (.4%)	570
secondary (after σ 14, 22)	386 (97%)	12 (3%)	398
	tot	al caesurae =	968

Cassura violability thus supports their minor status and points to some hierarchical structure (s)(s)(s+p(+s)). In the four Tocharian meters that have been closely studied, all and only the cassurae between 4- and 3-yillable cola are minor as diagnosed by violability (Bross, Gunkel, and Ryan 2014:3-5). The 4×35 provides a further case of (4-3) and supports the existence of the (4-4) cola described, for example, in Pinault 2008 and Peytot forthcoming:

⁶PK AS 6E (13 pādas), 7D (3), 7E (24), 7F (23), 7G (25), 7H (6), THT 8 (6), 16 (12), 17 (27), 18 (15), 19 (20), 20 (2), 73 (6), 74 (2), 108 (8), 128 (2), 496 (5).

²A 20 (2), 63 (2), 66 (2), 217 (5), 218 (2), 244 (2), 247 (2), 248 (4), 249 (3), 253 (6), 254 (3), 259 (4), 312, 315+316 (3).

Fellowing Bross, Gunhal, and Ryan 2014-0. B. 2 and Koller 2015, I treat the following Gorms as clinic. Endicine in TA: and '(extraining) from', the modal particle addi; the emphatic particles ata, assame, annel; the comparative particle abs 'like'; the rengative polarity usen anims; the ablative and allietive pronouns ame and assat; the comparative particle abs 'like'; the rengative polarity usen anims; the disjunction part 'ori'; the focus particle per and mass; the comparative particle are Notice in TA. the preportions das 'with and we'vehout.' Endifici in TB: the emphatic particle ats, ani, ma, ps, ms, ms; the comparative particle num(d), the indefinite pronouns ats, asa, the comparative particle abs, ani, ma, ps, ms, ms; the comparative particle number of wherefore; the 'hardow', ans 'hard you', and 'hard white 'hardow', and 'hard you', and the forms of 'to be' assisty and ass. Prochici in TB: the preposumons the 'wenth' and mass' verbout.'

⁸Running this on the number of boundaries as opposed to the percentages is slightly problematic: the TB data contains fragmentary verses, so the total number of boundaries per internal position ranges from 149 (most lacunae) to 169 (least facunae). Nevertheless, this yields similar values (p = .89, p < .0001).</p>

¹⁰These are 95%-confidence Clopper Pearson intervals for proportions (Clopper and Pearson 1934)

[&]quot;Studies of the alignment of syntax and meter are an obvious desideratum

Comparing prose constituents with the verse cola of the first four meters listed above, Bross, Gunkel, and Ryan (2014) find that there are fewer boundaries than expected in colon- and some verse-penulimate positions, apparently reflecting the avoidance of constituent-final monosyllables. In the more robust TB data plotted in Figure 1, the two points with the lowest boundary incidence are after the 9th (4-4%) and 24th (1.2%) syllables, which may indicate half-verse (h) and verse (v). If so, the constituency of the 4×3s would be

$$(((\sigma\sigma\sigma\sigma\sigma)(\sigma\sigma\sigma\sigma))_h(((\sigma\sigma\sigma\sigma)(\sigma\sigma\sigma\sigma))((\sigma\sigma\sigma\sigma)))_h)_v$$
.

The motivation for the organization of the cola is not immediately clear.¹⁹ I will argue below that the caesurae are carried over from the Krauncapada, where their location is clearly motivated.

3 Tocharian meter as influenced by Sanskrit

Having provided the 4×3 with a fuller description, let us return to the scholarship regarding the relationship between Sanskrit and Tocharian meter. Widmer (2006) challenged the independent status of Tocharian meters, pointing out that aside from the non-regulation of weight, most Tocharian meters are structurally like the Sanskrit sammayttas, whose stanzas consist of four metrically identical, isosyllabic verses/pāda (antaputal) that are often further articulated by cassurae. Widmer compared the structure of four Sanskrit sammayttas with four Tocharian meters, claiming that they correspond both in syllable count and in the location of the cassurae, which I refer to as the "colometry." Since then, it has become clear that two of the comparisons cannot be upheld, since they are based on a frequently cited but empirically unfounded analysis of the Tocharian a×15 (Bross, Gunkel, and Ryan 2015). The remaining comparisons are between the Tocharian 4×25 and the Sanskrit Kraushtapanda; note that Widmer cites the colometry of the latter pair as "s/s/l8/7," i.e. without reference to Stumpf's (minor) cassurae.

While Widmer's study has had some resonance (cf. Pinault 2008;400-1), the comparisons above have apparently not convinced scholars that the Tocharian meters in question were borrowed/adopted from Sanskrit. I suspect this is because the following two questions have not yet been addressed. First, were the Tocharians familiar with meters like the Krunshapadā, which are described in metrical treatises but rarely or never attested in Sanskri poetry? Velankar (1949b) gives a sense of just how rare the Krunshapadā. S. The authors compared the meters listed in ten metrical treatises

with the actual poetic practice in twenty-eight Mahäkavis of the ancient and medieval periods and found that of the 600 sammyttas of the catuspati $(4 \times n)$ type listed in the treatises, the poets only used only 28 frequently, and another 103 "for a change and ornamentation" (31). The Kruninapadā is not among those 128. And second, why does the 4×25 have two more caesurae than the Kruninapadā? Let us take a closer look at the attestation and structure of the Kruninapadā.

4 The Krauñcapada

The Sanskrit metrical treatises describe the Krusnicapadā as a 4×25-syllable meter with a 3/5¹⁸/r colometry and the following rhythm, beginning with Pingala's Chandalsistra (7.30):¹⁹

Outside the metrical treatises, the Krusikapadā is to my knowledge only attested once, namely in five surviving stanzas of a buddhastotra discovered in the "Rotkuppel-aum" of the Kizii caves (CETAM's "Qizii Min-Qy") during the third German Turfan expedition (1905-7).16 The stanzas, numbered 6-10 in the manuscript, were edited and translated in 1935 by Schlingloff, who dubbed the stotra Prisi der Bekehrungen Ruddhus.

After the Buddha achieves release (sunokas) and brings tranquility (upakama) to the good (stanza 6), the poet dedicates a stanza to each of four miraculous conversions, that of the demon Āḍavaka (7), the snake king Apalāla (8), the elephant lord Nālāgiri, (9), and the finger-collecting serial killer Angulimāla (10). The conversion of Nālāgiri, depicted here as a rampaging bull elephant in musth, should give a sense of the mer and the quality of the poem. Schlingloff's conjectures and emendations are given in parentheses and square brackets, respectively. I have marked caesurae, clitic-host junctures (+), and compound boundaries (-), which the poet treats as (or much like) word boundaries with respect to caesurae (59):

roṣa-vivṛtta-¹vyākula-dṛṣṭiḥ |
praviṣṭta-mada-kaṭa-viluḍtta-vadanaḥ
śonita-digdh[o] | bhrānta-karāgro |
hata-nara-sīrasi-ja-'parigata-daśanaḥ |
yena vinito ¹ rāja-gṛthe 'sau ¹
mimadiṣṭu rair + va ¹ gaja-patir aśivas
tasya maharṣṣḥ¹ śāsana[m a]gṛy[aṇŋ¹ |
viniq/vatu) mamm amatirm¹ iba) mati-manasaḥ || 9 |,

[&]quot;It is possible that the shorter 1-syllable subcolon in the (4₀3) units may have a classiciar function, marking were end in the 4×3 and 4×13, and both half-verse- and verse-end in the 4×14 of the concept of "saleency" in Hayes and MacEachern 1998. Kiparisky 2006. Ollett 2012, but it is not clear whether an analysis along these lines could be extended to the 4×18 and 4×18, let alone the other twenty-five or so Tochanan meters.

¹¹krauńcapadā bhmau sbhau nau nau ga bhūtendriyavasv<u>ī</u>sayah

¹⁴On the expeditions, see Fellner 2007.

His eyes were confused and rolled with rage, his face was besmirched by musth secretion that flowed down from the temples, he was blood smeared, the tip of his trunk swayed unpredictably, his tusks were garlanded by the hair of dead men – the one who tamed that baleful lord of elephants in Rājaggha as he was seeking to crush (everything) like an enemy, let the prime teaching of that great sage, whose mind is thoughtful, tame my thinking here.

Regarding the style of the poem, Schlingloff wrote (1955:14):

Obwohl die chronologische Bestimmung unbekannter Werke allein nach tillistischen Gesichtspunkten sehr zweifelhaft ist, wird man doch mit einigem Vorbehalt sagen können, daß die Dichter unserer Hymnen von dem Dichterkreis um Aśvaghosa [and c. cz] und Mätrceta [pre-sth c. cs] zeitlich nicht wire entfrent sich

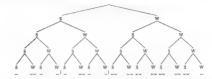
Since there is no other evidence for the existence of this text, it is impossible to say anything certain about its provenance. It may have been composed in India as early as the and c. cB, transmitted along the Silk Road to Central Asia, and preserved in Kizil. It is not out of the question, however, that a Central Asian Buddhist who studied Sanskrit grammar, meter, and early Buddhist körpie poetry composed the text. If the birchbark fragments known as the Turfan Chamdoriciti (Schlingloff 1958), which contain a collection of Sanskrit verses exemplifying various meters, demonstrate that Buddhists in East Turkestan were studying Sanskrit meter as early as the 4th/sth c. cs. '' Given the find spor and the fact that the manuscript exhibits the occasional confusion of vowel length and voicing among stops that is typical of Sanskrit texts from the region, e.g., adarukam for ādarukam 'Alavaka' (7c) and pannakardjam for pannagardjam 'king of snakas' (8c), it is reasonably likely that the copyist spoke Tocharian, which had neither phonological contrast."

The location of the caesurae in the Krushkapadā is clearly motivated. The caesura after the tenth syllable, which marks the palpable rhythmic transition from the two adonics to the extended stretch of light syllables, divides the pāda into balanced sixteen-mora half-lines. The other two caesurae divide the half-lines into eight-mora quarter-lines. The symmetry suggests the following hierarchical organization:

$$\big(\;(\;(-\smile\smile--)_{\delta_{jk}}\;(-\smile\smile--)_{\delta_{jk}}\;)_{1\delta_{jk}}\;(\;(\smile\smile\smile\smile-)_{\delta_{jk}}\;)_{1\delta_{jk}}\;($$

The identity of the first half-line with the Rukmavatī meter and the second with the

Manigunanihara invites further analysis of the Kruuñaapada, along the lines of Deo 2007, as a sysygy of two trochaic tetrameters. The meter is binary and trochaic (i.e. rhythmically Strong-Weak) at every level: each position is bimorauc, each foot contains two such positions, each dipody (=quarter-line) contains two feet, etc.:



If the Krmsincapadā, like the 4×25, had caesurae after the 14th and 22nd syllables, they would divide the last two dipodies (quarter-lines) into their constituent feet (eighth-lines).

5 Boundaries in the Preis der Bekehrungen Buddhas

Since the metrical treatises do not necessarily reflect the poets' treatment of cassurae exactly, "and since the Tocharians may well have learned the Kruurhapada from actual poetic texts such as the Presis des Beheirungen Buddhas (PABB), we should examine the word boundary distribution in that stotra. As noted above, a number of the cassurae coincide with compound boundaries. In have counted compound boundaries between inflectable stems as word boundaries. This conforms to poetic practice and to the prescriptions of the metricians. Note that the use of Schlingloff's emendations and conjectures for the word-boundary distribution is less problematic than it may seem at first glance. For example, in ps

śonitadigdh[o] bhrānta-karāgro

the manuscript reads "digdhoh, Schlingloff entertains the emendation printed as well as a single compound sonitadigdha. I bhranta-karāgro. With respect to boundaries, the

[&]quot;On the question of the provenance of stotras attested only in Central Asian triansscripts, see Flartmann. 1997 286 ft. 9.

¹⁶ For a recent discussion of the nature and dating of the fragments, see Chen 2013.

[&]quot;Wolfgang Krause already suggested to Schlingfoff that the confusion among stops could be attributed to a Tocharan scribe (Schlingfoff 1951:7) n. 2), and he surely would have suggested the same for the vowels had be thought, as we do now, that Tocharian lacked phonemic vowel length

⁴⁴C. Stemer 1907/34-6 for regular cassurse in Anumbh Vipulsts that are nowhere noted in the treatises. "Science 1907/34-9) provides a fear, concluse decasion of Hallyquidst's definition of seasuri (put) in the Yasyupadeiipanuud as well as a study of what appear to be regular exceptions to that definition in Harpacker's poetic practice, e.g. cassura between prefix and stem, explicitly forbiddist of Vallayudia. Since de exceptions appear to be less mentionally fedicious and may require parametal pragnation monitoration in some cases (246). I have not counted them here. I also consider the relatation of custame before and alter voweth fuscal arrass compound boundaines to be less fedicious, so I have treated derimathantique as histiniate harrigen, as opposed to the internal harrigen parameters and the production of the counter of the contract of the production of the counter of the production of th

two options are equivalent. In 9d, one may take issue with Schlingloff's conjecture of the aksaras miha and the supposed compound mati-manasah 'einsichtig':

vina(vatu) mama mati(m 1 iha) mati-manasah

In my view, the parsing of maticVcVmatimansals as mati-CVcVmati-manasals or matic VcVmati-manasals is extremely likely, and the more difficult choice between the printed text and, for example, mati-CVcVm ati-manasals makes no difference for the tally. Figure 2 plots the boundary incidence in the TB 4×35 and the Krausicapada. As above, host-chitic junctures do not count as boundaries. 30

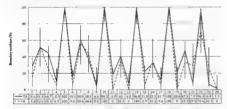


Figure 2. Boundary incidence in the TB 4×25 and the Krauñcapadā.

Strikingly, the correlation between the two is virtually as strong as the correlation between the TB and TA data: Spearman's $\rho=.86, \rho<.0001.$ The most important fact reflected in the plot is the high boundary incidence after the 14th (100%) and 2and (70.6%) syllables, which correspond to Stumpf's (minor) caesurae. Thus while the metrical treatises do not prescribe caesurae in those positions, the actual poetic practice of the PABB provides the basis for all five Tocharian caesurae and points to borrowing.

The high boundary incidence after syllables 14 and a 2 does not necessarily reflect cassurae in the Krauñanpadā. The peaks in the plot there could be "caesurals," by which I mean byproducts of the other caesurae, the rhythm required in that stretch of the meter, the shape of Sanskrit lexical items, and other aspects of the grammar. In order to address the question and by extension the accuracy of the treatises, we would require more poetry composed in Krauñanpada as well as Sanskrit prose passages that

happen to have comparable stretches of light syllables. The issue has no consequences for the borrowing scenario: if the Tocharians learned the Krunicapula from the PABB and/or comparable terms, they had access to the surface form of the meter (boundary distribution), not to its grammar (caesurae).

6 Tune or meter names (kenes)

Tocharian metrical passages are preceded by a term in the locative or perlative singular, which is usually set off by double dandas. For example, on the wooden tablet from the Kizil caves recently published by Ogihara (2015), || apratitulyemne || precedes TB verses in the 4×25 praising a local monastery. Sieg and Siegling (1921) referred to the terms as meter names. The majority are of Sanskrit origin, but so far, only one of the ca. 150 terms (B harinaplutne, A harmaplutam) has been identified with a Sanskept meter name (Malzahn 2013). Since Winter 1950, the prevalent opinion holds that they do not refer (only) to the meter, but (also) to an aspect of the performance of the poetry, perhaps the tune.23 Winter's reasons for this were that (1) the same meter is often associated with a number of different terms and (2) occasionally the same term is associated with more than one meter. Furthermore, in archaic texts, the term is occasionally followed by kenene, the locative singular of TB kene (: A kam), which may be cognate with Latin canō 'sing', Old Irish canu, the Hesychius gloss ήικανός' ο άλεκτριών ('dawn-singer', i.e. the cock), etc. and mean 'tune, melody' (Winter 1059, Watkins 1999). To borrow a TB example from Watkins' admirably clear discussion of the kenes (1999:602-4), THT 515b4 preserves niskramam kenene, which Watkins translates "in niskramant- [Skt. 'departing'] melody" (603).

Several experts have recently been working on the kenes (Malzahn 2013, Peyrot forthcoming), and the results will no doubt elucidate the phenomenon. Here I wish to make one observation. The 4×25 is associated with at least three kenes that are common to both TB and TA: TB apratitulyemne (: A apratitulyenam), bahudantākne (: A bahudantākam), and bahuprahārne (: A bahuprakāram), as well as three further kenes artested only in TA, arsi-lancinam, watani-lantam, and sevasi-niskramantam. I find it striking that the kene derived from Sanskrit apraxitulya-, which apparently means 'not to be compared, incomparable' (cf. SWTF s.v.), scans - - - x and thus fits the beginning of the Krauñcapada pada, as do many Sanskrit meter names including Krauñcapada itself. (The beginning of a popular verse was used as a mnemonic and eventually as the name of the meter.) While the scansion of appratitulya- may be accidental, I cannot help but wonder whether a popular Krauñcapadá verse that began apratitulyo was the source of the kene. To be sure, this is not the only source of kenes. For example, ärsi-läñcinam means either 'in the (tune) of Tocharian A kings' or 'in the Tocharian A (tune) of kings' (Watkins 1999, Peyrot forthcoming). Whether it is one of the sources should be easier to gauge with the results of the studies noted above

²⁰In practice, these are aham-sti 6b, smam-th 6c, prápya-ca, bhisag-iva 6d, aham-tha 7d, (gha)na[m]-iva 8a, tarum-iva 8b, yo-by 8c, aru-iva 9c, °pa(tiv-iva) 10b, gaga-iva 10c, and nabhasi-ca 10d.

^{*}Running this on the number of boundaries (see the caveat above, n. 9) again yields similar values ($\rho = 81, p < .0001$)

²³ For a different view, see Widmer 2000:527 ft. 20.

7 The borrowing

I would like to suggest the following borrowing scenario with all due caution. An erudiet Coharian Buddhist who studied Sanskrit grammar and meter and had a taste for Buddhust ktnya poetry adopted the Krunikapadai for his or her Tocharian compositions. 3º Given the general popularity of buddhastorras in Central Asia, the fact that particular stotras enjoyed local popularity (Hartmann 1907:286-7), and the rarity of the Krunikapadai, the PABB may have been one of the source texts. While the 4×23 is used for buddhastorras, e.g. to translate and adapt Mätçceris' Varparhavarpastorra into TA,3° the meter is by no means restricted to the genre, nor is it rare. I must assume that (1) the Sanskrit source texts belonged to multiple genres and/or (2) the genre-specificity of the meter was lost as it gained popularity in the Tocharian tradition.

The boundary incidence in the 4×2s, specifically the greater violability of the minor cassurae and the apparent bridges after the 9th and 24th syllables, suggest that (s)he not only borrowed the cassurae bur also carried over the constituency of the meter, which was perfectly transparent in the weight-regulating Knushappada, with its mornically balanced half- and quarter-verses. The fact that the constituency continued to be transmitted is somewhat surprising, since it became opaque when syllableweight regulation was given up.

$$(\ (\ (----)_{g_0}\ (----)_{g_0})_{1/g_0}\ (\ (\ (----)_{g_0})_{1/g_0})_{1/g_0}\ (\ (-----)_{g_0})_{1/g_0}\ (------)_{g_0})_{1/g_0})_{1$$

It is possible that the manner of recitation of the Tocharian 4×25, which is presumably referred to by the kenes, facilitated the retention of the constituency.

The reason for giving up weight regulation should probably be sought in Tocharian phonology. While counterexamples exist, "Gorlon (aco6:aco) cautiously observes that of the seventeen lauguegs with weight-sensitive metrical traditions in his survey, sixteen have a phonemic distinction in vowel length, and all seventeen treat CVV(C) and CVC syllables as heavy in meter, as in Classical Sanskrit. Furthermore, stress tends to agree with the meter in treating those syllable types as heavy. In contrast to Sanskrit, neither Tocharian language has phonemic vowel length. The stress system of Tocharian A treats non-high vowels as heavy and high vowels as high (Nevnes and Plaster 2008). Tocharian B stress is weight-insensitive, but stress assignment in

certain morphological categories (e.g. class I subjunctives of the type tekam-me 'will touch') and individual lexical trems (e.g. pātar 'father') point to a similar prehistoric distinction between non-high and high rowels (Malzahn 2010:6-7, 219-20; Jasanoff 2015). I suggest that Tocharian phonology did not make the kinds of distinctions that facilitate the development, borrowing, or retention of quantitative meters.³⁶

8 Concluding remarks

Accepting that the Krunincapadia is the source of the 4×x5, we can draw several conclusions. First, it speaks for the utility and accuracy of the quantitative corpus-linguistic methods developed for the analysis of Tocharian meter in Bross, Gunkel, and Ryan 2014 and 2015 and applied to the 4×x5 here. Second, it shows that even rare San-skiti meters were candidates for borrowing into Tocharian. Thirt, the similarity between the 4×x5 and other Tocharian meters suggests that the puzzling colometries of Tocharian meter, i.e. the seemingly unmotivated combinations of even and uneven cola, may have arisen via borrowing and the loss of syllable weight regulation. 3º Regarding the last point, however, I wish to stress that it remains possible that an indigenous system with those characteristics was already in place when the Tocharians borrowed the Kruninapadia.

Abbreviations

CETOM = A Comprehensive Edition of Tocharian Manuscripts. Accessed 2013–16. http://www.univie.ac.at/tocharian/

SWTF = Bechert, Heinz (ed.). 1994. Sanskritwörterbuch der buddhistischen Texte aus den Turfanfunden. Vol. 1: Vokale. G\u00fcttingen: Vandenhoeck & Ruprecht.

References

Bross, Christoph, Dieter Gunkel, and Kevin M. Ryan. 2014. "Caesurae, bridges, and the colometry of four Tocharian B meters." Indo-European Linguistus 2:1-23.

— . 2015. "The colometry of Tocharian 4×15-syllable verse." In Malzahn et al., 15-28. Bremen: Hempen.

¹⁷Ins Techanan may also have considered rare, long, omate meters to be particularly well-susted for praising the Buddha (cf. Hahn 1987;35). With the exception of the PBBB, Hahn's examples are later storasts. ¹⁸Cf. Harmann 1987 and Prinasit 2004;38:1–91, boll with further references. The latter, together with fe following chapter (29) 310), provides an imagified exemplification and discussion of suses of Tocharan translation and adaptions of Sansiery buddhestorras.

³⁰The counterexample in Gordon's study is Berber. Paul Kiparsky informs me that Ottoman Turkish, which did not have contrastive vowel length, borrowed the Persian/Urdu quantitative tradition.

[&]quot;I say "factimet" because Old Journes balassing (0-1e. CB) shows that poets of a language that probably lacked phonomic vowel length could borrow Sankirt syllabo-quantiture and more-occuning metas will as the Sankirt-ppe damation between light and lieary syllable. It is not dear to me whether Old Javanese had a contrast between heavy and light syllables prior to the borrowing, and if so, whether it was different met Sankirt-ppe damation. In an agreeful to Andrew Oldlet for postingth into ut to me and old Griffith for answering a number of questions about Old Javanese. For some basis information about the tradition and as a charoshep to Sankird, see Pollock 2000, 587-9.

x7Mondvin meter, if cognate with Kalevala meter (Kiparsky 2014), provides the closest parallel I am aware of.

- Chen, Ruixuan. 2013. "Bemerkungen zur Turfan-Chandoviciti." Indo-Iranian Journal 56:41–60.
- Clopper, C. J., and Egon S. Pearson. 1934. "The use of confidence or fiducial limits illustrated in the case of the binomial." Biometrika 26:404–13.
- Deo, Ashwini S. 2007. "The metrical organization of Classical Sanskrit verse." Journal of Linguistics 43:63–114.
- Fellner, Hannes A. 2007. "The expeditions to Tocharistan." In Instrumenta Tocharica, ed. Melanie Malzahn, 13–36. Heidelberg, Winter.
- Gordon, Matthew Kelley. 2006. Syllable Weight: Phonetics, Phonology, Typology. New York: Routledge.
- Hackstein, Olav, Hiromi Habata, and Christoph Bross. 2014. "Tocharische Texte zur Buddhalegende I: Die Geschichte von der Nonne Sundari. Bi5-18." Munchener Studien zur Sprachwisenichaft 68:31-99.
- Hahn, Michael. 1987. "Sanskrittexte aus dem tibetischen Tanjur (I): Das Nägärjuna zugschriebene. Dandakayrttastotra." Berliner Innlologische Studien 3:31-102. [Corrected version, accessed January 3, 2016. https://uni-marburg.academia.edu/MichaelHahn]
- ——. 2014. "A Brief Introduction into the Indian Metrical System for Students." Accessed November 9, 2015. https://uni-marburg.academia.edu/Michaell Iahn
- Hartmann, Jens-Uwe. 1987. Das Varnárhavarnastotra des Matreeja. Göttingen: Vandenhoeck & Ruprecht.
- —. 1997. "Der Pragämastava. Ein Buddhastotra aus den Gilgit-Funden." In Bauddbaridystudhäksrab; Studies in Honour of Heine Bechert on the Occasion of His osth Birthday, cd. Petra Kieffer-Pülz and Jens-Uwe Hartmann, 285–96. Swistzal-Odendorf: Indica et Tibeteia.
- Hayes, Bruce, and Margaret MacEachern. 1998. "Quatrain form in English folk verse." Language 64:473-507.
- Jasanoff, Jay H. 2015. "The Tocharian B accent." In Malzahn et al., 87-98.
- Kiparsky, Paul. 2006. "A modular metrics for folk verse." In Formal Approaches to Poetry: Recent Developments in Metrics, ed. B. Elan Dresher and Nila Friedberg, 7–49. Berlin: Mouton de Gruyter.
- 2014. "Catastrophic metrical change: Kalevala and Mordvin meter." Paper presented at "Frontiers in Comparative Metrics 2," Tallinn University.
- Koller, Bernhard. 2015. "Studies in Tocharian phonology above the word-level." Ph.D. diss., University of California, Los Angeles.
- Malzahn, Melanie. 2010. The Tocharian Verbal System. Leiden: Brill.
- . 2013. "Written and oral culture in Tocharian—the case of poetry." Paper presented at "Transmission of the Buddhist Texts in Central Asia: Tocharian Buddhism and Its Role," Ludwig-Maximilians-Universitat Munich.
- Malzahn, Melanic, Michaël Peyrot, Hannes Fellner, and Theresa-Susanna Illés (eds.).

- 2015. Tocharuan Texts in Context: International Conference on Tocharuan Manuscripts and Silk Road Culture, June 25-20th, 2013. Bremen: Hempen.
- Nevns, Andrew, and Keith Plaster. 2008. Review of Paul de Lacy, Markadness Raduction and Preservation in Phonology (Cambridge, UK: Cambridge University Press, 2006). Journal of Linguistics 44:770–81.
- Ogihara, Hirotoshi. 2015. "Kuchean verses written on a wooden tablet kept at Xinijang Kucha Academy." In Malzahn et al., 149-57.
- Ollett, Andrew. 2012. "Moraic feet in Prakrit metrics: A constraint-based approach." Transactions of the Philological Society 110:241-82.
- Peyrot, Michaël. Forthcoming. "A comparison of the Tocharian A and B metrical traditions." In *Language and Meter*, ed. Dieter Gunkel and Olav Hackstein. Leiden: Brill.
- Pinault, Georges-Jean. 2000. "Narration dramatisée et narration en peinture dans la région de Kucha." In La Serinde, terre d'ethanges: Art, religion, commerce du Ist au X^e nècle, ed. Jean-Pierre Drege, 149–68. Paris: La Documentation française.
- Schlingloff, Dieter. 1955. Buddhistische Stotras aus ostturkistanischen Sanskrittexten. Berlin: Akademie-Verlag.
- ----- , 1958, Chandoviciti; Texte zur Sanskritmetrik. Berlin: Akademie-Verlag.
- Sieg, Emil, and Wilhelm Siegling. 1921. Tocharische Sprachreste. Vol. 1: Die Texte. A. Transcription. Berlin: de Gruvter.
- Steiner, Roland. 1997. Untersuchungen zu Harsadevas N\u00e4g\u00e4nanda und zum indischen Schauspiel. Swisttal-Odendorf: Indica et Tibetica.
- Stumpf, Peter. 1971. Der Gebrauch der Demonstrativ-Pronomina im Tocharischen. Wiesbaden: Harrassowitz.
- Velankar, H. D. (ed.). 1949a. Jayadāman: A Collection of Ancient Texts on Sanskrit Proorly and a Classified List of Sanskrit Metres with an Alphabetic Index. Bombay: Haritosha Samiti.
- 1949b. "Prosodial practice of Sanskrit poets." Journal of the Bombay Branch of the Royal Asiatic Society 24-5:49-92.
- Warkins, Calvert. 1999. "Questions of syntax and meter in Tocharian." In Compositions Indogermanicae in memoriam Jochem Schindler, ed. Heiner Eichner and Hans Christian Luschutzky, 601–14. Prague: Enigma.
- Widmer, Paul. 2006. "La métrique tokharienne: L'influence indienne et quelques développements tokhariens." In La langue poétique undo-européenne: Antes du Colloque de travail de la Société des Études Indo-Européennes. Paris, 22-24 ostobre 2003, ed. Georges-Jean Pinault and Daniel Pett, 523-35. Leuven: Peeters.
- Winter, Werner. 1959. "Zur 'tocharischen' Metrik." In Akten des 24. Internationalen Orientalistenkongresses München 1957, ed. Herbert Franke, 520-1. Wiesbaden: Steiner.

Rhetorical Questions and Negation in Ancient Indo-European Languages

OLAV HACKSTEIN

I Nonrethorical and rhetorical questions

Rhetorical questions are traditionally regarded as phenomena belonging to literary thetoric and falling outside the scope of grammar, rather than as linguistic phenomena. Most grammars lack a formal category "thetorical question". This is because many languages use the same question format for rhetorical and nonrhetorical questions. In these cases rhetorical and nonrhetorical questions are only differentiated by their propositional content. In English, interrogative structures such as (1) How could you X7 or (2) Hawe you lost X7 can indiscriminately introduce nonrhetorical or rhetorical questions, e.g.

- (1a) nonrhetorical How could you fight the crisis?
- (1b) rhetorical How could you?!
- (22) nonrhetorical

 Have you lost your wallet?
- (2b) rhetorical

 Have you lost your mind/marbles?!

Nevertheless there are languages that formally distinguish rhetoncal from nonrhetorical questions. Thus for questions involving sentential negation, i.e. a negated proposition (~ p), older (and modern) Indo-European languages frequently exhibit a contrast between two functionally discrete question types. In question type (nonrhetorical), non-movement of the negation correlates with true, informationsoliciting questions; in question type a ((hetorical), leftward sentence negation movement correlates with strong counterespectationality of a negated proposition (~ p). Questions of type 2 thus preempt an affirmative bias towards the core proposition (p), thereby canceling the solicitation of new information. In the following I will first document both correlations for modern and ancient Indo-European languages (\$2-6), then lay out the mechanism behind the form function correlation (\$7).

2 English and German

In English and German, the placement of the negation can distinguish between nonrhetorical and rhetorical questions. Thus in (3) and its (New High) German translation equivalent in (4) low negation (a) in a non-rhetorical information-soliciting question constrasts with raised negation (b) in a rhetorical question:

- (3a) English, non-rhetorical, correlating with low negation Why should you not stand under a tree during a thunderstorm?
- (3b) English, rhetorical, correlating with raised negation

 Why shouldn't we take the shortcut, if there is one?
- (4a) German, non-rhetorical, correlating with low negation

 Wieso sollte man such bei Gewitter nicht unter einen Baum stellen?
- (4b) German, rhetorical, correlating with raised negation Wieso sollte man nicht die Abkurzung nehmen, wenn es sie gibt?

3 Latin

Latin formally differentiates inner negated polar questions and outer negated polar questions; on this subdvision cf. Ladd 1981 and Buring and Gunlogson 2000. Incr negated polar questions exhibit low negation, which encodes a nonrhetorical, information-soliciting question (sa). By contrast, outer negated polar questions tend to move the negation nome to the left periphery to express counterexpectionality of the negated proposition (~ p), thus yielding rhetorical questions like those in (5b). Cf. Kühner and Stegmann 1976;503 with further exemplification.

- (5a) Latin, inner negated polar question, nonthetorical
 iis:ne rebus manus adferre non dubitasti
 this:ABLPLP-Q thing;ABLPLP hand.AGC.PL lay.on:PRS.INF NEG doubti-PRF.3SG
 a quibus estiam oculos cohibere te religionum
 from which.thing:ABLPL even eye:AGC.PL divert.INF you:AGC.SG REE:GEN.PL
 issns aggebast?
 law-NOM.PL force:IMPF.3PL
 "Did you not refrain from laying your hands on these things from which the
 religious rites forced you to divert even your eyes?" (Cic. Yerr. 2.4.101)
- (5b) Latin, outer negated polar question, rhetorical

 non-ne com graviter tulisse arbitramuni...? Quod enim ..

 NBG-Q he: ACC scriously take: PRF-INF think: PRS. 2PL-MP? For indeed. .

 "You surely don't think he regretted ..., do you? For ..." (Cic. Verr. 2,5,170)

non est iudicatuu boestis Antonius?

NEG AUX:PRS.38G Judge:PRF.PTCP.MP enemy:NOM Antonius:NOM
"Han't Antonius been declared an enemy?" (Gic. Phil. 7.13)

non manum abstune, mastigia?

NEG hand:ACC take.off:PRS.36G whip:VOC
"Won't You Itske your hand off, vou scounder?" = "Hands off?" (Fer. Ad. 78)

The same form-function dichotomy (low negation ~ nonrhetorical; high negation ~ rhetorical) recurs with negated causal content questions, expressed with 1967, how, and 1968. These exhibit low negation when placed under information focus. When however the speaker seeks to mark the negation of the proposition as counter-expectational, the negation is raised to an immediately post-interrogative position. An example of the contextual contrast of outer and inner negated 1967 questions is found in a letter of Cicero (6a-b). They contrast a dependent nonillocutional low-negation question (6a), which is purely factual, with an illocutional affirmative-bias question (6b), which is counterexpectational and thus exhibits high negation:

- (6a) Latin, low-negation, nonrhetorical, information-soliciting question Si quis requirit cur Romae non sim: quia if PRON.INDEF ask:PRS.38G why Rome:LOC NEG be:PRS.SB.38G because discesse est. vacation be:PRS.18G "If somebody asks why I am not at Rome: (it's) because it's a vacation."
- (6b) Latin, high-negation, rhetorical, affirmative-bias question

 our non-sim is it meis practiolis

 why NEG DE-PERS.SB.JSG in these:ABL-PL my:ABL-PL estate:ABL-PL

 quase sum huisu temporis:

 which:NOM.PL De-TERS.SPL this:GEN.SG time:GEN.SG

 "Why should I not stay on those estates of mine that are most appropriate
 for the season:

 quia frequentiam illum non facile ferrem.

 because multitude:ACC that:ACC NEG casily bear:IMPP.SBJ.ISG

 (it is because I would hardly bear that throng." (Cic. AB. 12.40.3)

The juxtaposition of causal interrogative and counterexpectational high negation frequently led to a formal and functional fusion (chunking) of interrogative adverb and negation. Examples are, inter alia, (Old) Latin quid-ni (Lewis and Short 1879:1516 s.v. qui II B 3: quidni 'in thet. questions,' Menge 193:1310 5493), and qui-n, cf. (7). (For a collection of attestations, see Lindsay 1907:106-11, Fleck 2008:83-0).

(7) quish ego boc rogem, quod nesciam?

how-neg I: Nom this: Acc ask: PRS SBJV ISG REL: ACC DOT. know PRS. SBJV. ISG

"Why shouldn't I ask this given that I don't know it?" (Pl. Mil. 426)

4 Sanskrit

Vedic Sanskrit also exemplifies the negative raising in rhetorical questions. To take an example (8), RV 10.146 contrasts a nonrhetorical low-negation question, which inquires about the suprising fact that "the Lady of the Wilderness herself doesn't inquire for a village or settlement" (Jamison and Brereton 2014:1617), with a rhetorical, and consequently high-negation, polar question "Does fear not find you at all?":

- (8a) kathá grámam ná prchasi? how village:ACC NBG ask:PRS.2SG "How is that you don't ask for the village?"
- (8b) wie took blife ison vindatizin?

 NEG yout-ACC fear:NOM almost find:PRS.36G

 "Does fear not find you at all?" (RV to.146.1cd; Jamison and Brereton.
 2014;1618)

In Vedic, the correlation of high negation why not questions and non-informationsoliciting, affirmative answer bias can be exemplified by the following example (&c). The passage describes and praises Indra's various violent deeds (ibid.), which are assumed to be well-known to the audience:

(8c) dirandayo nadyò rivruvad vaind.

make.roar:IMPP.25G river:ACC.PL roar:INT.PTCP.NOM.SG wood.INS

"You made the rivers roar, yourself constantly bellowing through the woods."

and culminates in an interrogative-exclamative clause:

(8d) kathá ná kronír bhiyást sám árata? how NBG war.cry:NOM.Pl. fear:INS together clash:AOR.3PL.MP "How have the war cries [/Heaven and Earth] not clashed together in fear?" (RV 1.54.1cd: Jamison and Brercton 2014:160)

whose content may be paraphrased as "Everybody agrees that in light of Indra's might the war cries [/Heaven and Earth] would have clashed together in fear."

5 Hittite

Sommer (1932:54 n.4) observed for Hittire the tendency to raise the negation nanta into sentence-initial position in rhetorical questions. Hoffiner (1986:89-90) as well as Hoffiner and Melchert (2005:84-93) provided an extended extemplification as well as counterexamples. These latter however do not invalidate the tendency under discussion, but merely confirm that we are dealing with a tendency. As will emerge below in 87, raising the negation in interrogatives is driven inter alia by the pragmatic tagging of the negation as counterexpectational. Note this does not preclude there being other means of marking interrogative negation as counterexpectational. See (9) below for a typical contrast between nonrhetorical interrogative with low pre-verbal negation (9a) and rhetorical interrogative with sentence-initial negation (9b):

- (9a) Hittite, low-negation, nonrhetorical question

 mu: war: an huit hunda natta wemiyanzi

 PTCL-QUOT-him INTER:ACC POSTP NEG find: PRS.3PL

 "(He said.) "Why do they not find him?" (VBOT §8 i 2; Hoffner 1986:91)
- (ob) Hittite, high-negation, rhetorical question
 natta-famat 10-045 DUGUD tuppi huzzian harzi
 NSG- you:2Pt. dignitary:DAT.Pt. babte-ACC inscribe:PTCP-ACC AUX:PRS.3SG
 "Has (my father) not inscribed a tablet for you dignitaries?"
 (KBo 2at. obv. 33; Hoffier 1985:90)

6 Tocharian

In Tochanan low negation correlates with nonrhetorical questions. An example of a low-negation nonrhetorical question occurs in the the third act of the Mairreyasamithāgaka, when the Buddha's stepmother, Mahāprājapatī Gautamī, wants hand over to the Buddha a golden, handwoven cotton garment as a present, but he rejects it, asking his mother to donate the garment to the Buddhist community, the Saigha, instead. The Buddha's rejection of the garment prompts Mahāprajāpatī to inquire about the reason. Mahāprajāpatī's question is therefore nonrhetorical and shows low negation:

(10a) Tocharian, low-negation, nonrhetorical question

mänt me tää pitähätä kässi mä emistätäri äi?

why PTCL it buddha nom teacher:Nom NEO seize:OPT.38G.MP-me

"Why would the Buddha-god the teacher not be prepared to accept it

from me?" (Toch. A, AYQ 25 [III.6] b8; Ji, Winter and Pinault 1998:168–9)

(10b) Tocharian, high-negation, rhetorical question

"Why don't you say the good word?" (B 20 b6)

Tocharian A sulva vamnās bsalune. mänt mä käckal joy:INS attain:SBJ.3SG extinction:OBL why NEG rejoice.GER NOM esantāb? give: PRS. PTCP. GEN. SG "If he happily reaches extinction, why shouldn't a giver rejoice" (AYO 20 [L2] as: Ii. Winter and Pinault 1908:28-9) (bä)[llskā: kuval mā näs nurvunäs ksalunevam think: PRT.15G why NEG I: NOM life. OBL give.up: ABS nirvana: LOC kalkim? go.OPT.ISG "[1] thought: why shouldn't I, having given up my life, go into nirvāna?" (AYQ 36 [N.3] b1 = A 295 asf.) Tocharian B ka mā weścer krent [reki]? why NEG say: PRS.2PL good: OBL word: OBL

7 Conclusion

The contrast between low negation interrogatives in nonthetorical function and high negation interrogatives in rhetorical function, documented in \$\$a-6, conforms to a crosslinguistic pattern. How are we to account for this form-function relationship? The mechanism behind it is that raising the negation to a higher focus position immediately after the interrogative, thereby placing it under interrogative focus, is a means of marking the negation as counterexpectational. Counterexpectationality in turn amounts to a corroboration/affirmation of the core proposition and therefore cancels the question's information-soliciting function. The correlation of rhetorical question with raised negation conforms to an optional syntactic-pragmatic mechanism.

References

Buring, Daniel, and Christine Gunlogson. 2000. "Aren't positive and negative polar questions the same?" Accessed September 5, 2012. http://hdl.handle.net/1802/1442. Fleck, Frédérique. 2008. Interrogation, toordunation et subordunation: Le latin quin. Parts Presses de l'Université Paris-Sorbonne.

- Hoffiner, Harry A., Jr. 1986. "Studies in Hirtite Grammar." In Kanishuwar: A Tribute to Hans G Guterbook on His Seventy-fifth Burthday, ed. Harry A. Hoffiner, Jr. and Gary M. Beckman, 83–94. Chicago: The Oriental Institute of the University of Chicago.
- Hoffner, Harry A., Jr., and H. Craig Melchert. 2008. A Grammar of the Hittite Language. Part 1, Reference Grammar Winona Lake: Eisenbrauns.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda: The Earliest Religious Poetry from India. Oxford: Oxford University Press.
- Ji, Xianlin, Werner Winter, and Georges-Jean Pinault. 1998. Fragments of the Tocharian A Maitreyasamiti-Nătaka. Berlin: Mouton de Gruyter.
- Kuhner, Raphael, and Carl Stegmann. 1976. Ausführliche Grammatik der lateinischen Sprache. Vol. 2., part 2, Satzlehre. 5th ed. revised by Andreas Thierfelder. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Ladd, D. Robert. 1981. "A first look at the semantics and pragmatics of negative questions and tag questions." Proceedings of the Chicago Linguistics Society 17:164-71. Chicago: Chicago Linguistic Society.
- Lewis, Charlton T., and Charles Short. 1879. A Latin Dictionary. Oxford: Clarendon Press.
- Lindsay, Wallace M. 1907. Syntax of Plantus. Oxford: Parker.
- Menge, Hermann. 1953. Repetitorium der lateinischen Syntax und Stilistik, 11th ed. revised by Andreas Thierfelder. Leverkusen: Gottschalk.
- Sommer, Ferdinand. 1932. Die Ahhyava-Urkunden. Munich: Beck.

The Pahlavi and Sanskrit Versions of the Gāthās: What Can They Teach Us?

MARK HALE

In the course of one's training as a graduate student one may, if one is lucky, enjoy a wide range of positive "course" experiences, for a variety of reasons: the course may be particularly stimulating in the intellectual domatin, it may be taught by a singularly engaging instructor, or, for example, it may benefit from a satisfying sense of community amongst its participants. Professor Richard N. Frye's "Middle Iranian" courses at Harvard in the 1980s had the unique property of displaying all of these properties (and some others which space, and propriety, does not allow me to go into in any detail on this august occasion). While Stephane was already an established scholar at this point, she was a fully involved participant in the course, and it is in some sense in commemoration of this shared, and delightful, experience that I undertake to honor her on this occasion with a modest Iranian paper.

Anyone who has had occasion to familiarize themselves with the scholarship regarding the Pahlavi translations of the Avesta will know that these translations are widely held to differ considerably in quality, depending on which parts of the Avesta are being translated (for explicit and lucid discussion, see Cantera 2004). The Pahlavi translation of the Videvdat, e.g., is certainly perceived as far more correct and useful than that of the portion of the Yasnas which contains the Gäthäs. Indeed, I think it is safe to say that the Pahlavi translation of the Gäthäs has been broadly held to be relatively mechanical, world-for-word gloss, presumed in fact to be the conversion of an interlinear rendering (with earlier marginalia eventually inserted as "comments"). This is clearly expressed by Tavadia (1996:40), who reflects what I will call the "traditional" conception:

Für die Pahlavt-Version, rein als Übersetzung gesehen, gilt noch das oft stietere Urteil HUBSCHMANNS: "Die Ausbeute wird eine verschiedene sein: reich für den Vendidäd, befriedigend für den jungeren Yasna, aber durftig für die Gäthás.". Hier war die Sachkenntnis nichts og ut. Außerdem war die Sprachform, namentlich die der Gäthäs, erheblich schwieriger. Schon die verwickelte, dichterische Wortordnung verhandert eine richtige Wiedergabe bei einer rein mechanischen Wort-für-Wort Übersetzung, wie sie das System verlangte. Given the striking differences in word order between a text such as the Gathās and the familiar prose which represents virtually all of our Pahlavi corpus, together with the differences in nominal morphology between the two languages (Pahlavi has virtually no case-marking), it comes as no surprise that such a word-for-word rendering would be as unintelligible in Pahlavi as it would be were we to attempt a word-for-word translation into English. Since the Sanskrit translator, Neriosang, explicitly asserts that he is translating the Pahlavi, rather than the Avestan, and since, as we have just noted, the Pahlavi of the Gathas cannot be expected to be a model of coherence, modern translators of the Gāthās have generally not attended the Sanskrit translation, either:

While it cannot be dated with any great confidence, it is safe to say that the Pahlavi translation of the Gäthäs postdates their composition by at least 1,000 years, and that many hundreds of years stand between the Pahlavi translation and the Sanskrit rendering by Neriosang in the late 11th century CE. Thus even perfectly coherent translation into either Pahlavi or Sanskrit would not guarantee that the coherency achieved would have provided us with any direct sense for the meaning Zarathustra was attempting to convey in composine the tests.

I would like to argue in this modest contribution to the discussion that abject pessimism may be a bit premature. While it is true that a rather long stretch of time separates Zarathustra from his Paldavi translator(s), and even more from Neriosang, there are two other considerations which seem relevant: first, in spite of temporal distance, both the Palhavi translator(s) and Neriosang are still nearly a thousand years *alser* to Zarathustra than those of us struggling with these questions now; and, second, that those translators can be quite safely assumed to have been much more deeply immersed in the relevant religious traditions—traditions which presumably can be traced back to the prophet and his disciples themselves—than are most contemporary Indo-Europeants struggling with the interpretation of the Gabass.

It is of course well known from the contact most Indo-Europeanists have with the commentary tradition surrounding the Vedic texts that being part of such a religious tradition can be both a boon and a hindrance to the interpretation of ancient texts. Geldner's translation of the Rigveda, for example, is often taken to task for overdependence on Sayana's commentary, an issue now remedied for us by the excellent translation of Jamison and Berretton (2014). Whitney, in his comments on his translation of the Saunaka Atharvaveda, at times exploits information provided by the later commentaries, and at times points out just how misbegotten those commentaries can be (certainly rivaling in their absurdity anything found in the Pahlavi translations of the Gäthås). It would seem that the same judicious use of the indigenous tradition may be appropriate in both the Avestan and Vedic cases: they should neither be trusted a privan, nor rejected out of hand.

'Humbach (2003) notes that Neriosang may occasionally take a look at the Avestan original, but no systematic study of this phenomenon exists, to my knowledge.

Given recent work on the Pahlavi translation of the Vidêvdād by Skjarvo and Cantera, and of recent work on the transmission history of the Avesta itself, it might be the right moment to reconsider the matter of the Pahlavi (and Sanskri) translations of the Gäthås. Indeed, my general sense, as one working at the fringes of contemporary approaches to Old and Middle Iranian, is that most Iransts today would not ascribe to the "traditional" view I outlined earlier, but it is hard to find concrete arguments for precisely how and why they diverge from this view. For example, in a recont translation of the Gäthås Humbach and Fass (2010:13) sav:

The Pahlavi translation, which is supplied with numerous Pahlavi glosses, was produced in the late medieval period. As for the Gäthäs, the priestly tradition seems to have already lost reliable information on their details at a much earlier time, in consequence of which their Pahlavi translation as a whole shows a deplorable lack of acquaintance with the fundamental percequisities of a scholarly approach and it is seldom really useful... A literal version of the Pahlavi translation of the Gäthäs and the other ritual texts into an extremely non-classical Sanskrit was produced by the famous medieval Parsi scholar Neriosangh supported by his less qualified nephew Ormazdyar. Taking into account the incompetence of the Pahlavi translators, one has to even expect less from the Sanskrit version of the Gäthäs, but occasionally also this is highly informative.

In spite of the encouraging remark at the end of this quote, the actual example given can hardly be decemed as evidence in support of such an assessment. The authors go on to say: "Thus our rendering of the name of Ahura Mazdā (Phl. Ohrmazd) as "Wise Lord' is based on Neriosangh's mahājiānin riāmin 'Lord of Great Knowledge'." But one hardly needs Neriosang to support such a translation: the cymologies of both aburs and mazdā-would already lead one to the same interpretation.

And we can see in this a methodological problem: when the Pahlavi and/or Sanskrit translations agree with an interpretation we already believe in for independent reasons, it is clearly a little disingeneous to label them "highly informative." But to label them that way when we disagree with them would obviously be rather odd. If we are going to simply use the translations opportunistically, to support us when they happen to agree and write them off as worthless when they do not, there is really no point in mentioning them at all.

Space is lacking here for me to provide any scrious, comprehensive assessment of the difficult matters these exit give rise to. What I would like to do is rather to present some preliminary evidence, leveraging some arguments tied to more general interests of mine, which seem to point to very specific ways in which the data support a more complex conception of the relationship of the Pahlavi and Sanskrit versions of the Gathas to their Avestan original than the "traditional" one with which I began.

As Insler (1975) noted in the introduction to his translation of the Gathas, a key

issue confronting anyone approaching these texts is an appreciation for their complex syntax. Much of the criticism of the Pahlavi translation of the Gathas has been con tered on errors of lexical interpretation: the Pahlavi translator thought, mistakenly, that word X meant Y, when it clearly (from our contemporary perspective, informed by a much deeper understanding of the Indo-Iranian lexicon) meant Z. But, while individual words encode a great deal of information regarding the meaning of a text. there is also a great deal of information to be extracted from the relationships between words-i.e., from the syntax of the clauses in the text. Indeed, Insler saw that many fundamental difficulties confronting our attempts to interpret the Găthās were not of the lexical type (where no one would doubt we have a better understanding than the Pahlavi translators of the Gathas), but of precisely how these lexical items were to be construed relative to one another. In addition, much of this "relational" information is encoded not in the so-called "open class" lexical items ("good", "mouth", "truth"), but in high-frequency functional elements, such as coordinators, pronominals, sentence adverbials, and particles. Given my own interests in Indo-Iranian (and Indo-European) syntax, it is to these aspects of the Pahlavi (and, eventually, Sanskrit) translation that I would like to direct my attention.

There are several matters in this domain that are of immediate interest in the Pahlavi translation. The first concerns the widespread traditional view that this translation arose from an interlinear gloss, and is thus faithfully "word-for-word": in fact, the Pahlavi translation deviates, in its word order, from that of the Avestan original in many individual instances, particularly when it comes to "functional" items. Let us take as our first example the Pahlavi translators' rendering of the Old Avestan particle zs (the cognate of similarly-functioning Vedic bs). This particle is enclitic, and thus, in spite of its clause-level subordinating semantics, it does not occur in clause-initial position (the normal position for non-enclitic subordinators in these languages). Its Pahlavi translation in the Gathas is consistently of 'because, since'. Pahlavi of is not an enclitic, and thus normally appears clause-initially, but if one were constructing an interlinear gloss this would play no role: one would have to write of underneath zf, the whole point of an interlinear gloss being to align meaning-bearing elements. The subordinator zi appears just over a dozen times in the Gathas, most often near the beginning of a clause which was introduced by a deictic pronominal. The Avestan order of such sequences is, of course, invariably pronominal + zi, in keeping with the clitic status of the latter. The Pahlavi order is, by contrast, invariably ct + pronomsnal (generally an or the weaker deiene by):2 Av. hussi... = Phl. ce an ... (Y.44.2d, Y.46.6c, Y.51.8c), Av. hā zī ... = Phl. cē ān ... (Y.48.2d, Y.48.6a), Av. tat zī ... = Phl. cê ân . . . (Y.34.14a), Av. tîm zî . . . = Phl. cê ōy . . . (Y.53.4a), and Av. tôi zī . . . = Phl. cê awesian ... (Y.48.12d). The Avestan sentence-introductory particle as is normally rendered by the Pahlavi term ēdön, but at Y.51.8a the sequence of zi... is translated as

Phl. et eldin . . . Simulary, at Y.-45,8b Av. niā sig. . . with the sentence adverbal nia 'now' and the enclitic pronominal -ig is given in Pahlavı as et niūn ēn . . . This "displacement" of el is not limited to cases in which it follows a functional element, as can be seen from the Pahlavi version of the start of Y.-43.10d paritim 21 854 . . . , which is ee pursiin is . . .

I would be the first to admit that this fact bears not at all upon our interpretation of these Gäthic passages, but it does tell us something important about the Pahlavi translation of the Gäthäs. Whenever this Pahlavi text was given its attested form, these words were arranged in keeping with the demands of Pahlavi grammar, regardless of the divergent order of the Avestan. If they started out as interlinear glosses, the process of constructing the Pahlavi text involved rearranging that word order based on the syntactic requirements of Pahlavi.

I start with this example because it also tells us something interesting about the Sanskrit translation of the Gathas. Avestan zi/Pahlavi ci in the above-cited passages is translated sometimes as Sanskrit yatah, and rather less frequently as Sanskrit yat. Regardless of which Sanskrit word is used in the translation, however, there is an interesting split in where the translating word is placed in the linear sequence. In Y.48ff., the Sanskrit order matches that of the Pahlavi translation (and thus diverges from the Avestan original): thus for Phl. ce an at Y.48.2d, Y.48.6a, and Y.57.8c the Sanskrit translation reads yat tat, yat idam, and yat ayam, respectively.3 For Y.48.12d's cë awëlan we have Sanskrit vatah tesam. Finally, for Phl. cë ëdön in Y.51,8a the Sanskrit translation is yat evam. There is absolutely nothing surprising about these facts on the traditional view: the Sanskrit translation is based, as Neriosang himself tells us, on the Pahlavi, rather than on the Avestan, so it is the Pahlavi order that we would expect to see in the Sanskrit rendering. What is completely unexpected, however, is that in the Gathas which come before Y.48, the placement of the Sanskrit translation of Avestan zī aligns not with Pahlavi cī, but with the Avestan original: thus for Av. huuö.zī in Y.44.2d and Y.46.6c we have Sanskrit su yatah (contrast the translations of the very same Avestan and Pahlavi sequences in Y.51.8c cited above). For Av. tag zī in Y.34.14a we have Sanskrit sa yatah. For Y.45.8b Av. nū zīt we gave Skt. nanu yatah idam. Finally, for Av. parštēm zī 68ā the Sanskrit translation is praśno yatas te.

These data indicate that, at least for the Gäthic passages before the start of Y.4.8, we are dealing with a Sanskrit text which was constructed with explicit reference to the Avestan original, regardless of the order observed in the Pahlavi translation. It is of considerable interest, given these admittedly very low-level observations, to quote from Bharucha's edition of the Sanskrit Yasan, where he notes in the preface (1920:1):

Even in the Sanskrit translations of Hås forty eight to fifty seven I have found a few examples of gross ignorance of the translator and

^{*}The Pahlavi translation is cited after Malanda and Ichaporia's (2011) rendering of Dhabhar's original text

¹The astate reader will notice that sandhi is not Neriosang's (or perhaps in this case Ohrmazdyar's²) strong suit

consequently I entertain misgivings as to their being the genuine translations of Narryosang himself. One example will suffice... [lexical example cited—MRH] We cannot impure such gross ignorance of Avesta and Pálhaiv to Mobed Nerryosang Dhaval. Hence I conclude that the great Mobed Narryosang wrote up to the end of the Hå forty seven and afferwards some less competent person or persons have ventured to continue and finish the work begun by him. I am, however, not quite confident in asserting this surmise and leave the point to future investigation.

It can scarcely be chance that Bharucha's intuitions and the facts regarding zi have hit upon the same point of division in authorship for the Sanskrit translation.

Having established then that "word-for-word" will not do as a characterization of the Pahlavi translation technique, we can ask whether there are phenomena which there is munor deviation rather more directly than the z8 example does in which there is munor deviation from the Avestan word order in our Pahlavi text. Let me again, for reasons of space, take a relatively modest, syntactic phenomenon as an example. One of the central issues confronting the interpreter of the Gåthås is how precisely to construe various genitive, instrumental, and other oblique, potentially adnominal NPs—in particular the question of which nomina these elements might be nd. In the case of the relatively configurational texts which have been examined for the study of the Pahlavi translation (e.g., the Flöm Yašt and the Vidévdåd), this issues scarcely arises, but it is a cone asport of Gåthie expects is.

Earlier researchers have established just which Pahlavi prepositions are generally used to render which Avestan cases (for a summary, see Cantera 2004;270), but I would like to address a rather different issue: not which preposition, but where the preposition is placed in the Pahlavi translation. Once again, in an interlinear translation (from which our text is sometimes alleged to have arisen), or indeed from any word-for-word translation, we would expect the preposition to be placed directly before the case-marked clement. But this hardly captures the richness of the Pahlavi rendering, as examples such as the following show:

Y.31.12b ... abisā zərədācā manayhācā
... 6 an f ōy dil ud menisn
"in accord with both his heart and his mind" (Insler 1975;39)

There are several matters of interest here. First, the case-marker \(\tilde{\tiide{\tilde{\tilde{\tilde{\tiide{\tilde{\tiide{\tilde{\tilde{\tilde{\ti

tive (which are not expressed by separate words in the Avestan) with dil. But, in keeping with the requirements of Pahlavi grammar, these grammatical elements instead are placed at the start of the NP as a whole, thus breaking the "word-for-word" pattern often attributed to the Pahlavi translation. Such examples are legion in the Pahlavi translation of the Gäthäs. It is worth noting that no preposition is required to find cases of this type of displacement: the demonstrative alone will also preceed any prenominal modifices:

Y.34.4c ... ag aṣāunē vahsīrəm manō

ud ēdēn ān ī ahlaw pahlom-mensīrīh

"(and) that best thinking which is of the pious (man)"

The value of this practice is fairly straightforward: it rells us where the left edge of the NP in question is, and thus what other elements are to be construed as part of the same syntactic constituent. Thus, e.g., in Y.28,7b Inslet translates "Give thon, o piety, power to Vishtsapa and to me." Part of the Avestan of that line reads vishapa in time ("power to Vishtsapa", in Insler's version), which is translated into Palhalva in a saw is as vishap xombism "that acquiring which is from Vishtsapa." The placement of an, at some remove from its head noun, tells us that the Palhavi commentator is construing writings in one as in independent argument of the verb, but as an NP-internal modifier.

Second-position clitics are often highly ambiguous as to how they should be construed in Avestan (and Vedic Sanskrit): do they represent arguments of the verb or have they escaped some NP? In many examples in the Pahlavi translation such a determination can be made. In Y.28.7c y 8i vi maghts... is rendered has not a distained manuser... "when this mantra of yours..." where the placement of the demonstrative his an unambiguous indicator that the Pahlavi translator has construed hy as adnominal. Such examples are very frequent (as, of course, are those where the clitic is not so translated, and thus not to be construed as adnominal). Sometimes other violations of "word-forword" translation follow from this technique:

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Y. 29.8a ...nā ačuuš sāsnā ...

ō ān ī amā hammūxtišn ēd ēwag

"for this our instruction" (Pahlavi)
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The translation of Av. aēuuō (as ēd ēwag) is postponed until after the NP is completed.

It is important to note—a matter to which I will return below—that the question is not whether these are the right translations or not: such matters must await an assessment of just what type of document the Pahlavi "translation" is trying to be. That such syntactic phenomena tell us something valuable about their question, by relling us about exactly what the Pahlavi translators were trying to say about the text, is, I hope, clear.

Returning to the general question of deviations from "word-for-word" translation,

there are also, interestingly, cases in which such a translation is almost precluded. Space will not permit me a full discussion of these cases here, but some preliminary observations can be made. The normal Pahlavi translations of abune: mazada. 'the Wise Lord' (or 'Lord Wisdom') is the single word Ohrmazad. Similarly, volue-manada. 'Good Thinking' is generally translated as Wahman in the Pahlavi of the Avesta. Often, this method of translation gives rise to no problems, as in 'Y_3.2a. (glosses suppressed):

Av. ažibiio masalā alvaro sarmno vobū manaņbā.
Phl. 3 avēšan [...] olormasal pad sālārīb ī valoman [...]
Av. toblyuh mahājūnīt svāmi svāmistājām suttamasya manasah [...]
"to them (did) the Wise Lord (reply) as befits His nulership..." (Insler)

Indeed, no problems arise for any of the best-studied Pahlavi translations (the Hôm Yast, treated in Josephson 1997, and the Vidévidid, which is the primary focus of Cantera 2004) due to the less "non-configurational" nature of Young Avestan. Given the syntax of Old Avestan, however, there are many clauses in which abursa-does not occur adjacent to mandia-, or volus-sits at some distance from manniab-, even though they are to be construed together. This presents an obvious challenge to the Pahlavi translator (the Sanskrit translator before Y.48, by the way, simply follows the Avestan, translating both terms). One can imagine various mechanical solutions: one could translate the first term in linear sequence only; one could translate only the second term; or, one could translate both words with the same Pahlavi label. That none of these solutions were implemented across the board can be seen from the following example:

Y43.7ab spontrm at the same and minght abuve abuve abuve the spontrm at the same abuve mental he observed the same subman be med abuve manayha ha o man wahman be mad "And I have already realized Thee to be virtuous, Wise Lord, when he attended me with good thinking ..." (Inster 1975:61)

These two lines of the Gåthås show a common syntactic pattern whereby an NP finds itself separated by an otherwise clause-final verb: macada abund 'the Wise Lord' being broken up by minghi, and nobia manapha' with Good Thinking' being interrupted by pairt_jasse; 'he attended'. In the first line, the Pahlavi translator has translated only the atomal element of the discontinuous NP, in the next line, only the first. Is there a reason for this seemingly inconsistent behavior.

Note that the Pahlavi clauses, although aligned with the Avestan, are not structurally identical to it. The first clause, for example, is construed such that the verb agrees with you' (bit is and person singular) and the (Avestan) subject, pro-dropped 'I', is expressed by the Pahlavi clinc-iim. In light of Cantera's clear demonstration of the rather precise knowledge of Avestan verbal agreement morphology on the part of the Pahlavi translators (though he was not focussed on the Gäthäs as such), thus divergence is not to be attributed to grammatical incompetence. Its explanation is straightforward: in the past tense Pahlavi is ergative, with the "absolutive" argument (in this case the patient, you) controlling agreement.

In the second clause we would expect an over preposition, in this case doubtless pad, to encode the instrumental function of "Good Thurking" we see in the Avestan, but there is no such preposition. The Pahlavi appears to say, rather than "when he attended me with Good Thurking," something more along the lines of "when Good Thinking came to me." I say "reconstrual" rather than "misconstrual" intentionally: a detailed investigation of the translation of the instrumental in the Pahlavi Gāthās would be needed before we could determine whether the translator knew what the Avestan meant, and simply was not concerned about whether "Good Thinking" came to Zarathustra with the "Wise Lord" or on its own (in either case Good Thinking came to Zarathustra), or whether the instrumental was simply opaque to the translator. Note that the thrust of Cantreat's support for detailed grammatical knowledge on the part of the Pahlavi translators concerns verbal morphology, much of which survives in our carliest Middle Iranian records, which is not the case with most case morphology in the case with most case morphology.

If we assume that this reconstrual has taken place, then what might we say about the differences between the placement of Ohrmazed and Wahman in the Pahlavi translations above! Was there some motivation to postpone the translation of mazedu unil after the verb? Before I answer this question, let me demonstrate that in general it appears to be the syntax of Pahlavi that is playing a deciding role in which term gets translated, focussing on some clear Wahman cases. We find the translation taking place in the white-position in the first of these examples, in the manah-position in the second:

Y.34.11b vayki xixibnt manayki
pad än i waliman xwaddyih
"together with the rule of good thinking" (Insler)

Y.45.9a ... robhi mat mananhi...

pad abägih t wahman

"with good thinking" (Insler)/ "in the company of Wahman" (Phl)

The translation of Av. mat in the latter example, either as here ('in the company') or as at other places in the Gāthās (abag 'with') does not permut, in the grammar of Pahlavi, part of the complement of that element to precede it. For this reason,

mananjha has been selected as the site for insertion of Wahman. In the former example, the standard practice of inserting an to support preposed, ezafe-introduced modifiers has been exploited, and thus Wahman aligns with numbers. Space does not permit systematic presentation of the data here, but it is strongly supportive of this analysis.

What would that mean for the X-43-7ab passages' above? The crucial difference between the two passages, as near as I can tell, is that the former translates a new time, the latter an instrumental. Since Palhavi was generally verb-final, and inco vocatives are generally set off from their surroundings by intonational breaks, translating mazada in Y.43-7a would have led to a Pahlavi sentence with the intonational structure abzüng-im don itō, Ohrmazad, menid he (where commas introduce the relevant breaks), in contrast to the order used, which would be phrased as abzüng-im idön itō menid he. Ohrmazad, I think that Pahlavi preferred not to isolate the phrase-final verb with an immediately preceding intonation break, *whereas a final vocative 'tag' was quite acceptable—I believe this is true of Avestan as well, but the matter requires further investigation. In any event, the data secents to pattern this way regarding other Ohrmazad vocatives in the Pahlavi Gāthās. By contrast, in Y.43-7b, the instrumental does not require strong intonational breaks on either side of fit, and thus can occupy preverbal position without "isolating" the phrase-final verb.

What have we learned? It seems to me that the Pahlavi translation of the Gathas reveals a remarkably strong desire to produce a coherent Pahlavi text. What is the nature of that text, and how does it relate to the Avestan of the Gathas? Jamsheed Choksy, another participant in Professor Frye's Middle Iranian seminars alluded to at the start of this paper, noted nearly a decade ago that "[a]nalysis of the Zand is often neglected owing to a widely held conclusion, only partially accurate, that its authors had little knowledge of the Avestan language and therefore garbled the Middle Persian interpretations" (1996:107). Following the lead of Shaked (1994), he suggests that "Pahlavi renderings of the Gäthäs represent actual exegesis in addition to mechanical translation." In light of Cantera's (2004:Ch. 5) clear demonstration that knowledge of Avestan grammar was extensive, at least for early Pahlavi translators (including the Gathas, it seems to me), the alleged "incompetence" of the Pahlavi translation of the Gathas becomes a problem in itself, rather than an explanation for the form of the text we have. Some progress can be made on that problem if we were to stop treating the Pahlavi text as an attempt at a strongly literal translation. The task before us, antecedent to determining just how (or if) the Pahlavi (and Sanskrit) translations can help us in determining the best interpretation of the Gathas, is to figure out what these texts actually say, and why.

References

- Bharucha, Ervad Shcriarji Dadabhai. 1910. Collected Sanskrit Writings of the Parsu II-Ijimi. Bombay: Nirnaya-Sagar.
- Cantera, Alberto. 2004. Studien zur Pahlaw-Übersetzung des Avesta. Wiesbaden: Harrassowitz.
- Choksy, Jamsheed. 1996. "Doctrinal variation within Zoroastrianism: The notion of dualism." In Second International Congress Proceedings of the K. R. Cama Oriental Institute. Bombay: K. R. Cama Oriental Institute.
- Durkin-Meisterernst, Desmond. 2014. Grammatik des Westmitteliranischen (Parthisch und Mittelpersisch). Vienna: Austrian Academy of Sciences.
- Humbach, Helmut. 2003. "Nenosangh and his Sanskrit translations of Avesta texts." In Atas-e Dorun: The Fire Within. Jamshud Soroush Soroushian Memorial Volume, cd. Carlo G. Cereti and F. Vajifdar, 2:199–212. San Diego: 1st Books.
- Humbach, Helmut, and Klaus Faiss. 2010. Zarathutra and His Antagonists: A Sociolinguistic Study with English and German Translations of His Gathas. Wicsbaden: Reichert.
- Insler, Stanley. 1975, The Gathas of Zarathustra. Leiden: Brill.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigveda: The Earliest Religious Poetry of India. Oxford: Oxford University Press.
- Josephson, Judith. 1997. The Pahlavi Translation Technique as Illustrated by Hom Yast. Uppsala: Uppsala Universitetsbibliotek.
- Malandra, William W., and Pallan Ichaporia. 2013. The Pahlavi Yasna of the Gäthäs and Yasna Haptanhäisi. Wiesbaden: Reichert.
- Shaked, Saul. 1994. Dualism in Transformation: Varieties of Religion in Sasanian Iran. London: School of Oriental and African Studies.
- Skjærvø, Prods Oktor. 2009. "Old Iranian languages." In The Iranian Languages, ed. Gernot Windfuhr, 43–195. London: Routledge.
- Tavadia, Jehangir C. 1956. Die mutelpersische Sprache und Literatur der Zarathustrier. Leipzig: Harrassowitz.
- Whitney, William Dwight. 1905. Atharva-Veda-Samhitā. 2 vols. Cambridge, MA: Harvard University Press.

^{*}For comparison, of the over 850 instances of the vocative agene in the Righteda, I find only 5 which sit before a clause final verb

Zur Verbalbetonung im Rgveda

HEINRICH HETTRICH

Die Regeln für die Verteilung von betonten und unbetonten Verben im Veda und ihr Zusammenhang mit Parataxe und Hypotaxe sind seit langem bekannt. Neben den Standardfallen steht aber eine nicht unbeachtliche Gruppe von Satzen, die diesen Regeln nicht entsprechen; es handelt sich überwiegend um zweigliedrige Satzfolgen, in denen das Verb des Vordersatzes betont sein kann, während für den zweiten Teilsatz die bekannten Regeln gelten. Ein solches Satzpaar ist

(1) 1.152.3d1 rtám píparti ánrtam ní tárít "Die Wahrheit fordert er, die Unwahrheit drückt er nieder."

Als ahnlicher Fall, allerdings mit unbetontem Vordersatz, kann angeführt werden

(2) 2.24.3C úd gắ ājad ábhinad bráhmanā valám "Herauf führte er die Kühe; mit einem Spruch spaltete er den Vala."

In der Mehrzahl dieser Fälle besteht ein antithetisches Verhältnis zwischen beiden Sätzen. Je klarer und starker die Antithese ist, desto eher trägt das Vordersatzverb einen Akzent; abgesehen von Sonderfällen (cs - cs, vs - vs) liegt aber keine bindende Regel yor,

Die Diskussion über diese Konstruktionen wurde bisher v.a. getragen durch Delbrück (1888:37-51), Oldenberg (1906:707-41), Dunkel (1985:47-56), Hettrich (1988: 155-69), Klein (1992 passım) sowie Lühr (2008:307-27). Die Urteile dieser Autoren über den grammatischen Status dieser anrithetischen Satze stimmen nicht überein. Delbrück, l.c., hebt hervor, "dass zur Vervollständigung [der Konstruktion] ein zweiter Satz nothig ist. Der Gedanke dieses zweiten steht zu dem ersten im Verhältniss des Gegensatzes oder der Folge oder ist sonst irgendwie mit ihm zur Einheit verbunden. Der zweite Satz gilt als Hauptsatz, der erste bildet die Vorbereitung und wird insofern als Nebensatz bezeichnet."

Knapp zwanzig Jahre nach Delbrück hat Oldenberg das gesamte rgyedische Material erfaßt und nochmals untersucht. Er teilt die Satze nach ihrem internen Aufbau

in Subtypen ein und zieht stärker als Delbrück weitgehend analog gebaute Satze, allerdings mit unbetontem Verb, zum Vergleich heran wie soeben Beleg (2) gegenuber (1). Als Generallinie, die sich durch alle Konstruknonsvarianten durchzieht, ergibt sich, wie schon angedeutet, daß das Verb des Vordersatzes um so eher betont ist, je deutlicher der Kontrast zwischen beiden Sätzen ausgepragt ist. Allerdings ist Oldenberg mit dem Vorschlag Delbrucks, einen Vordersatz mit betontem Verb grundsatzlich als hypotaktisch aufzufassen, nicht einverstanden: "Denn es handelt sich nicht um Unterordnung, sondern um Nebeneinanderstellung oder Gegenuberstellung zweier gleichberechtigter Elemente; meist hatten diese ebensogut in umgekehrter Ordnung stehen können" (1906:708).

Mit diesem Urteil erfaßt Oldenberg zwar die überwiegende Anzahl der einschlägigen Fälle, aber daneben muß er doch einige Belege als Nebensätze anerkennen, die ihrem Hauptsatz vorangestellt sind, darunter

(3) 6.47.31C sám áśvaparnāś cáranti no náro 'småkam indra rathíno jayantu "[Wenn] unsere rossebeflugelten Herren sich sammeln, so mogen un sere Wagenkampfer siegen, o Indra!" (Gld.)

oder

1.85.7b á nákam tasthúr urú cakrire sádah "Indem/Nachdem sie den Himmel erstiegen haben, haben sie sich einen breiten Sitz geschaffen."

Särze dieser Art sind allein durch den Verbalakzent als subordiniert gekennzeichnet, und unterscheiden sich ausdrucksseitig nicht von den eigentlich antithetischen mit ebenfalls betontem Verb im Vordersatz.

Ähnlich wie Oldenberg urteilt auch Dunkel (1985:48-50). In einem Zusammenhang, wo es primär um nachgestellte subordinierte Sätze geht, schlagt er auch für die vorangestellten Sätze mit akzentusertem Verb eine Differenzierung in "main clauses" mit Verbalbetonung aufgrund von Emphase neben äußerlich übereinstimmenden aufgrund von Subordination vor. Dabei sei Emphase als Auslöser von Verbalbetonung ursprünglicher als Subordination.

Die ausführlichste Behandlung des Konstruktionstyps verdanken wir J. S. Klein in seiner Monographie von 1992. Er stützt sich auf Oldenbergs Material und Gliederung und erkennt, ähnlich wie Oldenberg, zwei Hauptgruppen: a) Vordersätze in nichtsubordinierten, teils antithetischen, teils progredienten Strukturen, die zahlenmäßig überwiegen, sowie: b) subordinierte Sätze ohne einleitenden Subordinator, die zwar weniger häufig belegt, aber doch klar nachweisbar sind. Als Beispiele für die zweite Gruppe lassen sich neben anderen anführen

^{&#}x27;Alle Textstellen stammen aus dem RV

Heinrich Hettrich

(5) 6.72.2cd sipa dyám shambhátu skámbhanená-pratalatam przhivým mätáram ví
"Wahrend ihr den Himmel durch eine Stütze gestützt habt,
habt ihr dte Mutter Erde weit aussebreitet."

Fur die erste Gruppe sei auf Beleg (1) zurückverwiesen; ein weiterer Satz ist u.a.

(7) 1.35.9c ápámívám bádhate véti sáryam "Er drangt die Krankheit weg, er verfolgt die Sonne."

Die entscheidende Gemeinsamkeit, eben die, welche die Verbalbetonung zur Folge hat, liegt nach Klein in der "incompleteness" der beteiligten Strukturen. In der antithetischen Konstruktion gelte dies in pragmatischem Sinne für den Vordersatz ohne den Nachsatz, in der subordinierten Konstruktion für den Nebensatz ohne den Hauptsatz. Nach der Wortstellungstypologie gehören das Vedische und sicher auch die idg. Grundsprache zu den nicht-rigiden SOV-Sprachen. Demnach sei die vorherrschende Position des Verbs in den Vordersatzen beider Konstruktionstypen am jeweiligen Ende dieses Vordersatzes, also an der Scharnierstelle beider Teilsärze, d.h. am Gipfel der Satzintonationskurve, und das drückt sich in der Betonung des Vordersatzverbs aus. Bei den Nebensatzen führte das weiter zur Grammatikalisierung der Verbalbetonung auch in den weniger häufigen Fällen mit dem Verb an anderer Stelle im Satz bzw. bei der Abfolge Hauptsatz vor Nebensatz. Dagegen blieb in der antithetischen Konstruktion das Nebeneinander bzw. Konkurrenzverhalten von betontem und unbetontem Verb im Vordersatz, ie nach Grad oder Intensität der Antirhese, hestehen. Die angesprochene "incompleteness" in beiden Konstruktionen bestehe also darin, daß der Nebensatz allein bzw. der Vordersatz in Antithesen eine hinsichtlich der Aussageabsicht unvollstandige Konstruktion darstellt.

Mit Klern stimmt meht vollstandig, aber in wesentlichen Punkten Lühr (2008) berein. Sie setzlt als These auf (S. 312), daß die Verhalbetonung in dem ersten Konjunkt (dem Vordersatz) durch die Erwartung eines zweiten Konjunkts verursacht wird. Sachlich ist hier kein Unterschied gegenüber Kleins "incompleteness" zu erkennen. Wetter heßt es, der steigende Alzert blüde ikonisch Offenheit bzw. Unabgeschlossenheit ab. Und schließlich vertrett Lühr die Ansicht (S. 316), "the Udatta in conjunct-fluial position on the verb of the first conjunct is a signal for bipartiteness", auch dieses in der Sache, nicht in der Terminologie, keine wirkliche Abweichung gegenüber Klein. Um so überraschender mutet es an, wenn die Autorin zu dem Schluß kommt (S. 316), die steigende Intonation des ersten Telsatzes zeige keine Subordi nation an, sondern Koordination. Damit geht sie über alle bisher referierten Autoren hinaus, die die Vordersätze zumindest eines Teils der bisher besprochenen Konstruktionen als subordinert werstehe.

Meme eigene Beschäftigung mit dem Gegenstand (1988:15;—65) hat mehr Gemeinsamkeiten mit Delbrück als mit den zuletzt refererten Autoren. Sie versucht, mit möglichst wenigen Klassen von Satzxypen auszukommen und deshalb auch die Vordersatze in antithetischen oder progredienten Satzabfolgen als subordiniert—vielfach adversativ—zu errstehen wie z. B.

(8) 8.96.5c prå pårvatå ånavanta prå gåvah "Los schrien die Berge, los die Kühe." (bzw.: "Wahrend... losschrien...")

Zugunsten dieser Lösung läßt sich auch die folgende Stelle mit adversativem anyå- / anyå- anführen:

(9) 2.40.5ab rófmini anyó bhúvaniā jajána rófmun anyú abhacikstana eti "der eine hat alle Wesen geschaffen ("Wahrend der eine ..."), wandelt der andere, alles beschauend." (Gld.)

Die Annahme eines subordiniert-adversativen Verhältnisses wird durch einen vergleichbaren Satz mit adversativem ydd (hypotaktisch konstruiert) unterstutzt:

(10) 3,55.17ab yıld anyılmı vrşabbö röraviti
sö anyılmını yütbö in iladbüti risab,
"Während der Stier unter den einen Kuhen brullt,
legt er in die andere Herde seinen Samen."

Bei der Betrachtung weiterer, antithetischer, aber auch progredienter. Satzpaare zeigt sich aber, daß diese Satzfolgen in vielen Fällen mit der communis opinio als intern gleichrangig und nicht subordimert aufgefaßt werden können, so auch in

(11) 1.123.12c párā ca yánti púnar á ca yanti
"Sie gehen weg und kommen wieder zuruck."

oder

(12) 2.16.2d háste váprum bhárati sirsáni krátum "In der Hand trägt er die Keule, im Kopf den Verstand." Hemrich Hettrich
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Fur parataktische, koordinierte Auffassung sprechen auch zahlreiche gleichrangig konstruierte Satzfolgen mit unbetontem Verb im Vordersatz, für den schon deshalb hypotaktische Geltung ausgeschlossen ist, z.B.:

(13) 1.93.6ab ányám divó matarísvä jabhärá-

-mathnād anyám pári śyenó ádreh

"Den einen hat Mätariśvan vom Himmel hergebracht, den anderen raubte der Falke vom Felsen." (Witzel/Gotō)

oder

(14) 1.161.14a divå yänti marúto bhúmyägnír "Am Himmel schreiten die Marut, auf der Erde Agni."

Es zeigt sich also folgender Befund:

a) In begrenzter Anzahl gibt es Sätze, die nur durch den Verbalakzent als subordiniert markiert sind; ein Musterfall ist 6.47.31c (s.o. (3)).

b) Ebenso in begrenzter Anzahl gibt es S\u00e4tze mit berontem Verb, die als selbstandige S\u00e4tze in antithetischem oder progredientem Verh\u00e4ltnis zu ihrem Nachsatz stehen, darunter 1.132.3d (s.o. (1)) und 1.35.9c (s.o. (7)). Besonders deutlich ist progredienter Bezug in

(15) 1.62.3 bṛˈhaspatir bhinad adrim vidad gáḥ "Brˈhaspati spaltet den Felsen und findet die Kuhe."

c) Und sethleßlich gibt es eine dritte Gruppe von Satzfolgen mit betontem Verb des Vordersatzes, die sowhl zu (a) als auch zu (b) gehören können, ohne daß in der Mehrzahl der Fälle eine fundierte Entscheidung möglich ware. Es ergibt sich also eine grammatische Homonymie zwischen zwei Konstruktionen, die auch semantisch allenfälls mit Mühe voneinander getrennt werden können. Dies bedeuter: Während man im "Normalfall" sprachwissenschaftlicher Fragestellungen bestrebt sein muß, jedes einzelne Phänomen so genau wie möglich in eine Kategorie einzuordnen und von nur ähnlichen zu trennen, ist es in der vorliegenden Problematik norwendig, auf diesen Grad an Prazision zu verzichten, um keine willkultliche, nur scheinbare Kategorisierung zu erreichen.³

Literatur

Delbruck, Berthold. 1888 Altındische Syntax. Halle: Waisenhaus.

Dunkel, George E. 1985. IE hortatory *éy, *éyte: Ved. éta. . . stáváma, Hitt. eḥu-wa it, Hom. ei ð' äye. Munchener Studien zur Spruchwissenschaft 46:47–79. Hettrich, Heinrich. 1988. Untersuchungen zur Hypotaxe im Vedischen. Berlin de Gruyter.

- Klein, Jared S. 1992. On Verbal Accentuation in the Rigreda. New Haven: American Oriental Society.
- Lühr, Rosemarie. 2008. Old Indic clauses between subordination and coordination. In 'Subordination' versus 'Coordination' in Sentence and Text, hrsg. Cathrine Fabricius-Hansen und Wiebke Ramm. 306–27. Amsterdam: Bennamins.
- Oldenberg, Hermann. 1906. Vedische Untersuchungen. 16. Die Verbalenklisis im Rgweda. Zeitschrift der Deutschen Morgenländischen Gesellschaft 60·706–41.

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²Dieses Ergebnis impliziert gleichzeitig eine Modifikation meiner Annahmen in Hettrich 1988;157–65.

Narrative Linkage in Sanskrit*

HANS HENRICH HOCK

I Introduction

In the last chapter of his study of Mahabhhanta postics, Sharma (1964) provides an excellent discussion on the use of formulae expressions in the great epic. Referring to earlier studies such as Hopkins 1901, Relvalkar 1939, Ren 1939, Renot 1939, and Sukthankar 1939, he demonstrates that many of the formulae employed in the Mahabhhantar "are constituents of the traditional stock," found in a broad range of oral textual traditions of ancient India. Further, he notes the use of "repetitive phrases or words in a set of verses as ... linkage or concatenation ... "(168).

While Sharma's focus was on the use of refrains and similar structures as poetic and thematic linkage, I have argued in two earlier papers (Hock 1994a, 1994b) for a more narrowly defined phenomenon of NARRATIVE LINKAGE—a tendency to establish narrative continuity through fronting of a variety of elements, ranging from demonstratives, conjunctions and adverbials, to finite and nonfinite verbs.

In this paper I summarize the findings of these papers, add to them, and explore to what extent the approach can be extended to fable literature and Vedic narratives. While there are certain similarities, there are also important differences which, to some extent, can be attributed to genre differences. I hope these findings contribute to the field of stylistic and rhetorical research on Sanskrit and other early Indo-European languages.

2 Toward a comprehensive account of Sanskrit narrative linkage

An early attempt at an account of Sanskrit discourse linkage is Oldenberg 1917. In spite of its accomplishments, however, the account suffers from several weaknesses. First, Oldenberg claims that demonstratives are the oldest linkers and that others, especially fronted finite and nonfinite verbs, reflect a later stylistic elaboration. Now Oldenberg is certainly correct in claiming that early Vedic Prose is fairly simple in its rhetoric and tends to employ mainly demonstratives and particles for clause linkage. However, the use of fronted finite and nonfinite verbs can be traced back to the Rgireda (see \$4.4 below). Later Vedic Prose, with a more digressive style, offers a fair number of examples with converbs and participles serving as narrative linkers (see \$4.4 below).

Further, the hymns of the mantra language and the dudactic and (occasionally) narrative prose of the Brāhmanas constitute different genres. Recent research shows that genre differences may correlate with considerable differences in syntactic preferences; see Jamison 1991, Hock 1993, 1997a, 2000, 2014, Tsiang-Staccvić 1997. Differences between the mantra language and Vedic Prose may therefore reflect differences in genre, not chronology.¹

Most important, as Oldenberg realized, the use of our putative linkers is not limted to narratives. "Initial strings" of fronted demonstratives and various unaccented and accented particles, as in (1), are a notorious feature of both the narrative (a) and the didactic (ib) portions of Vedic Prose; see also \$4.5 below. Converbs and other nonfinite devices likewise occur both in (quasi-)narrative and didactic portions; e.g. (2a) beside (3b).

- (1) a. śaryāto ha vā idam mānavo grāmeņa cacāra (ŚB 4.1.5.2)
 - "Sarvāta Mānava was moving around here with his troop."
 - b. yam u haiva tat paśavo manusycşu kāmam arohañs... (ŚB 2.1.2.7) "What desire the cattle then obtained among men..."
- a. prajāpatir akâmayata prajāycya bhûyân syâm iti sa tapo 'tapyata

sa tapas taptvā—imāriil lokān asrjata...

sa tapas taptva—imami ioka täml lokän abhyatapat

tebhyo 'bhitaptebhyas triņi jyotimsy ajāyant(a) (AB 5.32.1)

- "Prajāpati desired, 'May I procreate, may I be greater.' He performed austenties. He, having performed austenties, created these worlds...He heated these worlds. From these, having been heated, three lights arose..."
- sa tata eva prāk stambayajur harati stambayajur hṛtvā + atheyt eväger pan gṛthṇāti (ŚB 2.6.1.12)
 "He throws the grass bundle east from there. Having thrown the grass bundle, he first encloses (the altar) thus..."

^{*1} am indefined to Stephane Jamson, whose work his reinforced my interest in exploring the relation-thup between syntax and genre, as well as to Jared Klein and Rugeiswam Pandharpande, whose comments on earlier versions of this paper have been simulating and helpful. I have also benefited from discussions with Stark Tasang Starkevic regarding her work on the use of finite and nonfinite subordination devices in Sunkton transfares (see Tsang Starkevic, 1997). As usual, the responsibility for our errors less with me.

^{&#}x27;Oldenberg concedes something like this when he states (p. 20) that early Vedic Prose fails to take advantage of the full range of devices vouched for by the mantra language. However, it is not clear whether his statement is intended to cover the whole range of linkage devices, including, say, nonfinite verbs

We must therefore ask which of the various linkers are characteristic of narratives and which are used more generally. A comprehensive investigation of Sanskirt narrative linkage thus has to consider many different narrative texts and genres, contrast them with non-narrative texts, passages, and genres, and determine which devices are characteristic of linkage in narratives in general, which are specific to particular narrative genres (such as epics vs. fables), and which are employed just about anywhere.

3 A survey of linkage devices

It is useful to begin this investigation with a survey of different linkage devices, whether noted in earlier literature or not.2

DEMONSTRATIVE PRONOUNS, ¹ as in A.1, were recognized as clause linkers as early as Delbrick 1888:213 and Spenjer 1886:206, 1896:82; see also Jamison 1991 and the extensive literature on "*ta fige*" (e.g. Jamison 1992, Klein 1996, Dunkel 1997, Hock 1997b, Watkins 2000).

A. 1. tathaivāsīd vidarbheşu bhīmo bhīmaparākramaḥ | . . . |

sa prajärthe param yatnam akarot...

tam abhyagacchad brahmarşır damano năma...||

tarin sa bhimah . . . toṣayām āsa dharmavit | (MBh. 3.50.5-7)

"Likewise there was among the Vidarbhans Bhīma of terrible prowess...He made the utmost effort for the sake of progeny...To him came a brahmin sage, named Damana...Him that Bhīma gladdened, knowing dharma."

Several ADVERBIAL forms of the pronouns, especially asha 'now', status 'thereupon, then', and tasha 'thus, so, likewise', have acquired coordinating functions, as in B.1, and thus can be employed as linkage devices. They compete with second-position COORDINATING CONJUNCTIONS, such as as 'and' or tu 'but, and ...'; C.1. See e.g. Delbruck 1888, Speijer 1886, 1896, and for the Vedic language especially Klein 1985.

- (iii) Demonstrative pronouns
 tasva gatresu patită teşăin diştir mahâtmanăm (MBh. 3.54.9)
 "On her limbs their view was fixed, of the noble ones."
- (ii) Conjunctions and adverbs

tatas cintăpară , babhiiva damayanti tu nihsvăsaparamă tada (MBh. 3,51.2) "Thereupon Damavanti became filled with sorrow, highly filled with giref, at that time."

- n) Verbs
- tasmai prasanno damanah sabhāiyāya varam dadau (MBh. 3 50.8) "To him together with his wife, Damana, being pleased, granted a boon,"

'Following the Sanskrit grammarians, I use the neuter form, tad or etad, to refer to these pronouns

"Now, after a long time, Parnāda, returning, said . . . "

- tato 'ntarikṣago vacarh vyajahāra... (MBh. 3.50.19)
 "Then the bird said a speech..."
- tathawāsid vidarbheşu bhimo bhimaparakramaḥ (MBh. 3,50,5)
 "Likewise there was among the Vidarbhans Bhīma of terrible prowess..."
- C. I. a. nalaś ca... | kandarpa iva...abhavat svayam || (MBh. 3. 50.14)

 "And Nala was like the God of Love himself."
 - b. damayantî tu... | yasah prāpa... | (MBh. 3.50.10)
 "But/And Damayantî acquired fame."

Another device traditionally recognized as a potential linker is FINITE VERB fronting, D.1; see e.g. Delbruck 1878:22-3; Hock 1982, Klein 1991, as well as Dressler 1969 for Indo-European in general. A Vedic alternative consists in fronting only the preverb, as in the second and third parts of D.t.b, where the "stranded" verb is in small caps.

D. 1. a. abravid rtuparnas tam...(MBh. 3.70.16)

"(Then) Rtuparna said to him ... "

b. áhann áhim

ánv apás TATARDA (1)

prá vaksánā ABHINAT párvatānām (RV 1.32.1cd)

"He slew the dragon; he broke open the waters; he split forth the bellies of the mountains."

NONFINITE verbs are also used as linkers. Early western accounts of Sanskrit generally pay no attention to the linking functions of nonfinite verbs. But Indian scholars, such as Kale (1894:514-5) and Apre (1890:111), note that converbs "act as connecting links between sentences" (Kale 1894:515), as in E.1. Converbs are not the only nonfinite Sanskrit linkers. They are in a quasi-suppletive relation with other devices, as can be seen in E.2. While the converb is used in a. and d., b. employs a tat-PARTICIPLE, and C. a tap-participle in the LOCATIVE ABSOLUTE.

³My focus here is on elements that are fronted into initial or near-initial position in the clause. All of the devices can occur in other positions, see the following examples.

B. i. a. atha dīrghasya kālasya parņādo . . . ! pratyetya . . . abravīd (MBh. 3.68.1)

^{*}An exception is Delbruck (1888.385), who notes the use of ta-participles as linkage devices in Vedic Prose, his extended example also includes converbs.

^{&#}x27;Alternative terms include "gerund," "absolutive," "conjunctive participle," none of which is without problems.

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śrutvä ca samahṛṣyanta ... (MBh. 3.74.3)

"Then the horses of Nala heard that roaring of the chariot there. And having heard (it), they became excited..."

2. a. ... pratyūcus te divaukasah | ... || cvam ukrvā kalim devā ... yavuḥ || (MhBh 3.55.7–11)

"Those heaven-dwellers replied, '....' Having thus spoken to Kali, the Gods went..."
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b. yudhışthıra uvāca | ... |

tatas tam rathanırghosam nalāśvās tatra śuśruvuh

evam uktas tato rājnā dhaumyo 'tha...| akarot vidhivat sarvam (MhBh 4.4.51-52) "Yudhisthra spoke, '...' Thus spoken to by the king, Dhaumya

"Yudhişthira spoke, '...' Thus spoken to by the king, Dhaumya then did everything duly."

c. evam ukte nalena ...

nrpah... āsasāda... bibhītakam (MhBh 3.70.6)
"Nala thus having spoken,... the king sat near a vibhītaka tree."
sa samnipātayām āsa mahīpālān...| anubhūyatām

sa samipātayām šas mahipālān...| anubhūyarām ayam...svayamvara it...||
śrutvā tu pārthivāl sarve damayantyāh svayamvaram |
abhigamus tadā bhimami...|| (MBh. 3,s1.8-9)
"He summoned the rulers of the earth (with the words) 'Please observe this self-choice...'...And all the rulers, having heard (the announcement of) Damayantī's self-choice, then came to Bhima..."

Following Bloch 1930 the discourse-linking use of converbs as in E.1 and E.2.a, E.3 has been considered to reflect Dravidian influence; see especially Emencau 1971. Under the name TAIL—HABA LINKAGE the phenomenon of nonfinite recapitulation has been shown to be more widespread in (folk) narratives, irrespective of syntactic typology (Thompson and Longacre 1983:209–13); and under the term CATENA it has been shown to occur in Ancient Greek (Migron 1993). Further, the choice between converbs (as in E.2.a) and participial structures (E.2.bc) serves purposes recognized as SWITCH REFERENCE (Hamman and Munro 1983). Converbs, because they normally require agent (Earty) identity, indicate actor continuity, transitive tae-participles switch focus to the patient (karraman) of the preceding structure, and locative absolute structures permit focusing on vet other construences.

Beside "bare" converts of the type E.I., we find more frequently combinations of converbs + SATELLITES—objects, adverbs, etc.; see E.2. While in E.2 the Satellite consists of a single word (swam), E.3 shows that it may consist of more material (indicated by talics).

Example E.3 further shows that nonfinite linkage does not require exact lexical

repetition—frutna 'having heard' does not recapitulate the key verb of the preceding action, summpatayām āsa 'caused to come together', but indicates that the preceding message has been heard, as intended.

Significantly, the different devices enumerated so far can be found in combination, in what may be called LINKAGE STRINGS. Compare the examples in F.1.6

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F. t. a. teatas ta naisadham drayvā... (MBh. 3,52.14)
(adv. + tad + (sAT +) conv.)

"Then they, having see the Nışadhan..."
b. te tu hairiāh samutpatya... (MBh. 3,50.21)

"But those swans, having flown up..."

(tad + conj. + (sAT +) conv.)
c. pravišantin tu tāri drayvā... (MBh. 3,62.20)

"But having seen her entering..."
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Finally, dependent clauses are potential linkers; see G.1.

 G. I. yád indráhan prathamajám áhīnām (|) án māyinām ámināḥ prótá māyáḥ (RV 1.32.4ab)

(pres.pple + conj. + tad + conv.)

"When you, Indra, slew the first-born of dragons, then you tricked out the tricks even of the tricksters."

4 Comparison of linkage devices in narrative and non-narrative passages

The following sections compare narrative vs. non-narrative passages within a range of Sanskrit narrative texts, in order to determine the extent to which the different linkage devices enumerated in §3 are characteristic of narrativity and which different devices are characteristic of different genres (epic, fable, etc.). Statistics are based on the following samples.⁷

Rgreda: Hymns 1.32, 1.121, 2.15.8 About 25 of the 40 verses are narrative, the remaining 15, non-narrative.

Vedic Prose stories: Manu and Fish (ŚB 1.8.7.1-11), Urvaśī and Purūravas (ŚB 11.5.1), Śunaliśepa (AB 7.13-18), plus a ritualist passage (ŚB 1.3.1.1-20).

E. 1.

[&]quot;Here as elsewhere the elements of "Linkage Strings" are highlighted, and the identity of the elements is identified below the tration. The following abbreviations are employed adv. = conjunction his adverbal, conv. = converb, conj. = converb, conj. = converb, conj. = converb, conj. = converb conditionance conjunction, pple. = participle, pres. = present, sare = satellite.

[&]quot;The emphasizing particle 600, as well as food used as correlative pronoun are ignored. On the other hand, listings for food include pronounnal adverbs which have not become specialized as quasi-conjunctions. "The sampled excits are all trumeter verse which, with its longer lines, offers more "space" for foroining.

Narrative and non-narrative portions are on average nearly equally divided in the stones. The ritualist passage contains about 100 sentences; the narrative passages, ca. 6(0.

Epic Sanskrit: Nala and Damayantī books 1-3. About 28 verses are narrative, 56 are non-narrative.

Hitopadeśa: Sections 1.2, 4.9, and 4.10. Narrative and non-narrative passages are about equally divided. (Total length, about 100 sentences.)

4.1 Linkage in Epic Sanskrit

The distribution of linkers in narrative vs. non-narrative portions is summarized in Table 1. The entries under Narrative are adjusted (multiplied by 2) in order to allow for the fact that, because of the heavy dominance of cited-discourse passages, the ratio of narrative portions to non-narrative ones is 112. (Raw figures are given in parentheses.) Here as elsewhere simple and linkage occurrences of relative clauses are not distinguished.

A glance at the table shows that most putative linkers occur not only in narratives, but also in non-narratives. Major exceptions are conjunction-like adverbials which, in this sample, are limited to narratives, and simple finite verbs, which have about an equal chance of occurring in narrative and non-narrative portions. The latter finding is surprising, since in many other early Indo-European languages, especially early Slavie and Germanic, finite verb fronting is a highly prominent feature of epic style and, in Icelandic, even of narrative prose. In fact, spot checks on other major stories of the Mashabharans show that the story-initial stid in (3) is not typical for Epic, contrary to common perspective (see e.g. Dressler 1969). Rather, it is nonfinite verb fronting that is robustly associated with narrativity.

	S	MPLE	IN LINKAGE STRINGS	
	Narrative	Non-narrative	Narrative	Non-narrative
tad	12 (6)	7	44 (22)	4
Adv.	12 (6)	Ø	20 (10)	Ø
Conj.	10 (5)	4	26 (13)	1
Fin. V	2(1)	3	22 (11)	3
Nonfin. V	10 (5)	2	48 (24)	1
Rel. Cl.	4 (2)	6		

Table 1. Distribution of linkers in Epic Sanskrit (Nala)

(3) āsīd rājā nalo nama...

"There was a king, Nala by name ... "

Most important is the fact that Linkage Strings are robustly associated with narrativity and evanescently rare in non-narrative portions.

Finally, the difference between relative clause linkage in narrative and non-narrative passages in our sample is not particularly strong. The much broader investigation of Tsiang-Starcécvić (1997) shows that relative clauses are rare in the narrative passages of ALL Classical narrative geners and thus are a negative indicator of narrativity.

4.2 Linkage in fable literature

The distribution of linkers in the *Hitopadesa* sample (Table 2) shows certain similarities, but also interesting differences, compared to Nala.

Here, too, finite-verb fronting is not particularly associated with narrativity, even though the use of story-initial art is common (and well known). On the other hand, conjunction-like adverbials are strongly associated with narrative, and so are non-finite verbs.

What is most strikingly different is the absence of any Linkage Strings in nonnarratives, and the absence of relative-clause linkage in narratives. (In the latter regard, fable literature robustly conforms to Tsiang-Starćević's (1997) more general findings for Classical Sanskrit.)

	SIMPLE		IN LINKAGE STRINGS	
	Narrative	Non-narrative	Narrative	Non-narrative
tad	7	7	15	Ø
Adv.	10	2	12	Ø
Conj.	2	2	4	Ø
Fin. V	4	4	Ø	Ø
Nonfin. V	5	I	8	Ø
Rel. Cl.	Ø	II		

Table 2. Distribution of linkers in the Hitopadesa

However, Linkage Strings are less common in fable literature than in Nala, and their complexity tends to be quite limited. 17 of the 20 fable Linkage Strings contain just two words, as in (44), only five are of the more complex type (4b).

- (4) a. sa ca mrgaḥ...kenacic chṛgalenāvalokītaḥ (1.2)
 - "And that deer was seen by a certain jackal."
 - tataḥ kākaśabdam śrutvā mṛgaḥ . . . palāyitaḥ (1.2)
 (Adv. (+ sat.) + conv.)
 - "Then, hearing the sound of the crow, the deer . . . fled."

These facts must be considered in conjunction with another feature distinguishing

fable and Epic: As Tsiang-Starkević (1997) demonstrates (see also Tsiang and Watanale 1987), the fable differ from other narrative genres, especially the Epics, in employing very different overall rhetorical strategies, including heavy sentence-internal use of nonfinite verbs (generally converbs) as "stepping stones" toward the main verb of the clause, as well as a much more condensed portrayal of the action; see e.g. (5). In light of their condensed style, the fables would naturally avoid the complex Linkage Strings of Epic narratives.

- ity alocya tena gramam gatva dadhikarnanama bidalo mamsadyaharena samtosya pravatnad aniya syakandare dhrtah (2.4)
 - "... thinking thus, going to the village, satisfying a car named Yoghurt-Ear with meat and other food, taking (it) along with some effort, he kept it in his cave."

4.3 Linkage in Vedic-Prose narratives

In contrast to Classical Sanskrit, Vedic-Prose narratives do not make frequent use of Linkage Strings such as (6), other than the formula su hombae (sad + (particl) + Fin.V), which occurs some 37 times. Moreover, the few Linkage Strings that occur tend to be quite shorr; the one in (64) is the longest in the sample (but see also (a) above). Instead, all of Vedic Prose, whether narrative or non-narrative, ritualist or non-netualist, is saliently characterized by "linital Strings" consisting of topicalized elements (commonly nominal or pronommal), demonstrative and other pronouns, as well as particles; cf. (7) and see Hock 1982, 1996, Hale 1996 for different accounts. In addition, there are examples such as (8), in which a converb near the beginning of its clause functions both as linker and as "stepping stone" toward the main verb, similar to the rhetoric of the fables. As Tikkanen (1987) notes, structures like this are common in "procedural" Vedic Prose.

The summary in Table 3 therefore does not distinguish simple and linkage-string occurrences. The table does, however, present a separate listing for the ritualist passage that I examined (SB 13.11-20.). To compensate for the fact that this passage is only about one-sixth the length of the narrative texts, or one-third of the narrative and non-narrative portions respectively, the figures are multiplied by three (with the raw data in parentheses).

- (6) a. tasyāvanenijānasya matsyaḥ pāṇī 'āpcdc (ŚB 1.8.1.1)tad + pplc.
 - "Into his hands, as he was washing himself, came a fish."
 b. iti ha smakhyaya | athainam uvaca (AB 7.13–14)
 - so (- sat) + particles + conv.
 "Thus having spoken, he then said to him."

- tam paśyanti paśavo vayāmsi ca (AB 7.13)
 tad + fin. V
 - "The cattle and the birds see him."
- sa ekayā pṛṣṭo daśabhiḥ pratyuvāca (AB 7.13) tad + sat + ta-pplc.
 - "He, asked in one (verse), answered in ten."
- (7) daívām ca vấvá + asmā etád viśam mānuṣim cấnuvartamānau karoti divine and PCL hc.DAT then . . .

"He then makes both the divine tribe and the human one subservient to him." (MS 3.3.10)

(8) sa ha nety uktvä dhanur ädäya + aranyam apätasthau (AB 7.14) "Saying 'No,' taking his bow, he went off to the wilderness."

	Narrative	Non-narrative	Retualist
tad*	97	40	132 (44)
Adv.	17	14	102 (34)
Conj.	75	8	111 (37)
Fin. V"	2	9	9 (3)
Nonfin. V	20	10	24 (8)
Rel Cl.	8	42	25 (25)

[&]quot;These figures do not include 27 instances of the sa handon formula

Table 3. Distribution of linkers in Vedic-Prose narratives

Several things are noteworthy in Table 3. First, (e)tad heavily predominates in first position. However, it does so in all three subgenres—as it does in all of Vedic Prose. Moreower, in terms of frequency of use, narrative portions are more similar to ritualist ones than to non-narrative ones. Given that the non-narrative portions generally are cited discourse, the lower frequency in these portions may be another example of the way dialogue differs from the rest of Vedic Prose (Jamison 1991).

The closer agreement between narrative and ritualist passages might be explained by assuming that Vedic-Prose narrative essentially has adopted the style of the domnant technical discourse. In this regard, note that narrative and ritualist texts also show closer agreement in the frequency of the use of conjunctions and nonfinite verbs, again differing from non-narrative, dialogue passages.

This agreement between non-dialogue portions intersects with the general tendency, noted by Tsiang-Starćević for post-Vedic, for relative clauses to be rarer in narratives than other subgenres, a tendency manifested also in Table 3.

An important difference is the rarity of Linkage Strings in Vedic Prose versus their frequent and salient use in the Epic genre. Perhaps this rarity is attributable to the fact (noted earlier) that Vedic Prose makes heavy use of its own type of Initial Strings and that the latter may not leave sufficient room to also accommodate Linkage Strings.

Finally, the summary in Table 3 shows that, as in the Epic and the fables, finite verb fronting is rare, no matter what the (sub-)genre. Interestingly, it seems to be even less common in narrative than in non-narrative/dialogue or ritualist passages.

4.4 Linkage in Rgvedic narratives

The Rgreda is, in principle, a collection of hymns, not of stories. Nevertheless, some hymns, especially those recounting the heroic deeds of Indea, are narrative in character. Table 4 presents statistics for three such hymns (1.32, 1.1a1, 2.15), totaling 40 verses, of which about 33 are narrative.

	Narrative	Non-narrative
tad	8	1
Adv.	2	1
Conj.	1	1
Fin. V	29	5
Nonfin, V	11	Ø
Rel. Cl.	11	11

Table 4. Distribution of linkers in Rgvedic (quasi-)narratives

Linkage Strings are rare and in this regard, the Rgivida is similar to Vedic Prose. (Table 4 therefore does not have a separate listing for Linkage Strings.) Two of the three strings that I have found consist of just rwo words, and even the one multi-word string, (9), contains only two linkage elements—a demonstrative and a converb (plus a Satellite). It is thus possible that complex Linkage Strings are a feature of RPIC, rather than of all Sanskrit narrative traditions. (Recall that while Linkage Strings are also common in fables, they tend to be shorter than in the Epic.)

(9) sá pravolhňn parigátyā dabhíter vísvam adhâg áyudham iddhé agnaú (RV 2.15.4ab)

tad + SAT + conv.

"Having surrounded those that carried away Dabhîti, he burned their entire weaponry in the lit fire."

Comparison of the Rgvedic data with those of later periods reveals further differences. Most significant is the fact that verb fronting, especially of finite verbs or their prefixes (see D.1.b above), is the most prominent feature of Rgvedic narratives. Moreover, relative clauses occur with striking frequency, with a ratio of 1:1 between narrative and non-narrative passages vs. 1:1 for Vedic-Prose narratives. The differences between Rgwedic and later narratives raise the question whether they should be attributed to chronology or to differences in genre. Oldenberg would probably have considered chronology to be decisive. But as noted, recent research suggests thar many features differentiating the Rgweda from later Vedic Prose reflect differences in gener, nor chronology

In fact, as seen in §4.2, the evidence of Epic and fable narratives shows that differences in genre between roughly contemporary narrative traditions may correspond to different choices in narrative linkage, as well as differences in other aspects of rhetorical organization such as the "Stepping-Stone" rhetoric characteristic of the fables.

5 Conclusion

As I hope to have shown, a closer examination of linkers in different narrative genres can yield insights that make it possible nor only to better characterize narrative versus non-narrative passages, but also to distinguish between different narrative genres.

Linkage Strings are especially prominent in Epic, where they can reach considerable length and complexity—perhaps a feature of "Epic Breadth." They also occur in fable literature, but apparently because of the more "condensed" rhetoric of this genre, they tend to be shorter and less complex. In Vedic Prose and Rgwedic narratives they occur considerably less frequently. Individual linkage devices also feature in the narratives examined in this paper, but with greater differences between genres. While demonstrative fronting is found in all genres, finite-verb fronting is dominant only in the Rgweda. Outside the Rgweda is is NONFINITE verb fronting that is commonly associated with narrativity, rather then finite fronting. Relative clauses generally do not play a role as linkers, although they are more frequent in the Rgweda than the later genres. Finally, it seems that Vedic-Prose narrative passages may have adopted essentially the same rhetoric as the prevailing ritualist genre.

Much more work needs to be done to come to a fuller understanding of the association between linguistic features and genre, both in other Sanskrit genres—narrative and non-narrative—and, by way of comparison, in other early Indo-European languages. In the latter respect it is interesting that Tsiang and Watanabe (1987) find great similarities in the rhetorical organization of the Pañcatantra and Aesop's fables; and Migron (1993) observes that the linkage use of nonfinite verbs is likewise shared by Sanskrit and Greek narratives.

References

Apte, Vaman Shivaram. 1890. The Student's Guide to Sanskrit Composition. A Treatise on Sanskrit Syntax for the Use of Schools and Colleges. 3rd ed. Poona: Sagoon.

Belvalkar, S. K. 1939. "The cosmographical episode in the Mahābhārata and Padmapurāṇa." In Katre and Gode 1939:19–28. Hans Henrich Hock
Narrative Linkage in Sanskrit

- Bloch, Jules. 1930. "Some problems of Indo-Aryan philology." Bulletin of the School of Oriental Studies 2710-66
- Brereton, Joel P., and Stephanic W. Jamison (eds.). 1991. Sense and Syntax in Vedic. Leiden: Brill.
- Delbruck, Berthold. 1878. Die altindische Wortfolge aus dem Çatapathabrahmana dargestellt. Halle: Wassenhaus
- 1888. Altendische Syntax. Halle: Waisenhaus
- Dressler, Wolfgang U. 1969. "Eine textsyntaktische Regel der indogermanischen Wortstellung." Zeitschrift für veraleschende Strachwissenschaft 82:1-25.
- Dunkel, George E. 1997. "Conjunctive u and invariable sú in the Rgveda: Questions of method (with a note on Greek dialectal ow and ove)." Indogermanische Forschungen 102:166-7.
- Emeneau, Murray B. 1971. "Dravidian and Indo-Aryan: The Indian linguistic area." In Symposium on Dravidian Civilization, cd. Andrée F. Sjoberg, 33–68. Austin: Jenkins. [Reprinted in Emeneau 1986:167–66.]
- --- . 1980. Language and Linguistic Area. Essays collected by A. S. Dil. Stanford: Stanford University Press.
- Haiman, John, and Pamela Munro (eds.). 1983. Switch Reference and Universal Grammar Amsterdam: Renjamins
- 1996. "Deriving Wackernagel's Law: Prosodic and syntactic factors determining clitic placement in the language of the Rigweda." In Halpern and Zwicky 1996;165–67.
- Halpern, Aaron, and Arnold Zwicky (eds.). 1996. Approaching Second: Second Position Clisics and Related Phenomena. Stanford: CSLI.
- Hock, Hans Henrich. 1982. "Clitic verbs in PIE or discourse-based verb fronting? Sanskrit th howites ghtpynh and congeners in Avestan and Homeric Greek." Studies in the Linautitic Science 12(2):1—18.
- , 1993, "Some peculiarities of Vedic-Prose relative clauses." Wiener Zeitschrift für die Kunde Südasiens 35, Supplement 1992:9–29.
- 1994a. "Discourse linkage in Sanskrit narratives with special emphasis on the story of Nala." In Papers from the Fifteenth South Asian Language Analysis Roundtable 1991, ed. A. Davison and F. M. Smith, 117–30. Jowa City: South Asian Studies.
- 1994b. "Narrative linkage in the Mahâbhārata." In Modern Evaluation of the Mahâbhārata: Prof. R. K. Sharma Felicitation Volume, ed. S. P. Narang, 295-313. Delhi Nac.
- ——. 1996. "Who's on first: Toward a prosodic account of P2 clitics." In Halpern and Zwicky 1939:199–270.
- 1997a. "Chronology or genre? Problems in Vedic syntax." In Inside the Texts Beyond the Texts: New Approaches to the Study of the Vedas, ed. Michael Witzel, 103 26. Cambridge, MA: Harvard University Press.
- 1997b. "Nexus and 'extraclausality' in Vedic, or 'sa-fige' all over again: A his-

torical (re)examination." In Historical, Indo-European, and Lexicographical Studies: A Festschrift for Ladislav Zgusta on the Occasion of His 70th Birthday, ed. Hans Henrich Hock, 40–28. Berlin: Mouron de Grunter.

- -- 2000. "Genre, discourse, and syntax in Sanskrit." In Textual Parameters in Older Languages, ed. Susan C. Herring, Pieter van Reenen, and Lene Schösler, 163-04. Amsterdam: Benjamins.
- 2014. "Predicate order in Vedic Prose." In Veduc Studies: Language, Texts, Cul-
- Hock, Hans Henrich (ed.). 1991. Studies in Sanskrit Syntax. Delhi: Motilal Banarsi-
- Hopkins, Edward Washburn. 1901. The Great Epic of India. New York: Scribner's.
- Jamison, Stephanie W. 1991. "The syntax of direct speech in Vedic." In Brereton and
- 1992. "Vedic "sá figé": An inherited sentence connective?" Historische Spruchförschung 105:213–19.
- Kale, Moreshwar Ramchandra. 1894. A Higher Sanskrit Grammar for the Use of Schools and Colleges. Bombay: Naraven.
- Kane, P. V. 1939. "Mahābhārata verses and very ancient Dharmasūtras and other works." In Katre and Gode 1939:128–33.
- Katre, S. M., and P. K. Gode (eds.). 1939. A Volume of Eastern and Indian Studies Presented to Professor F. W. Thomas on His 72nd Birthday, 21st March 1939. Bombay: Karnarak.
- Klein, Jared S. 1985. Toward a Discourse Grammar of the Rigreda. Vol. 1, Coordinate Conjunction. Heidelberg: Winter.
- —. 1991. "Syntactic and discourse correlates of verb-initial sentences in the Rigveda." In Brereton and Jamison 1991:66-80 and Hock 1991:123-44.
- Migron, Saul. 1993. "Catena and climax in Vedic prose." Die Sprache 35:71-80.
- Oldenberg, Hermann. 1917. Zur Geschichte der altindischen Prosa (mit besonderer Berücksichtigung der prosaisch-poetischen Erzahlung). Berlin: Weidmann.
- Renou, Louis. 1939. "L'hymne aux Aśvin de l'ādiparvan." In Katre and Gode 1939:177– 87.
- Sharma, Ram Karan. 1964. Elements of Poetry in the Mahābhārata. Berkeley: University of California Press.
- Speijer, J. S. 1886. Sanskrit Syntax. Leiden: Brill.
- ---- . 1896. Vedische und Sanskrit-Syntax. Strassburg: Trübner.
- Sukthankar, V.S. 1939. "The Nala episode and the Rāmāyaṇa." In Katre and Gode 1939:294-303.
- Thompson, Sandra A., and Robert E. Longacre. 1985. "Adverbial clauses." In

- Language Typology and Syntactic Description, vol. 1, ed. Timothy Shopen, 171-234. Cambridge, UK. Cambridge University Press.
- Tikkanen, Bertil 1987. The Sanskrit Gerund: A Synchronic, Diachronic, and Typological Analysis. Helsinki: Finnish Oriental Society.
- Tsiang, Sarah, and Albert Watanabe. 1987. "The Pañcatantra and Acsop's Irables: A comparison of rhetorical structure in classical Indian and western literature." Studies in the Linguistic Sciences 17:137–46.
- Tsiang-Starćević, Sarah Y. 1997. "The discourse functions of subordinate constructions in Classical Sanskrit narrative texts." Ph.D. diss., University of Illinois.
- Watkins, Calvert. 2000. "'sa fige' in Indo-Iranian and Anatolian." Anusantatyai: Festschrift fisr Johanna Narten zum 70. Geburtstag, ed. Almut Hintze and Eva Tichy, 263-81. Dettelbach: Roll.

Vedic stusé 'I praise'

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Among the loose ends of Vedic grammar are "a few difficult first persons middle in se" (Whitney 1889;199), in which a seemingly gratuous se- intervenes between the present stem and the ending e-. The iconic example is stust, meaning some variant of 'I praise' (: pres. statuth), which occurs as times in the Rgwafa, mostly as a 1 sg., but also—not mentioned by Whitney—as a zag. passive, a 3sg. passive, and an infinitive. Three other forms of this type are found more than once: gratief (: pres. gryafat) 'I praise with song' (12xx, including two instances as a zag. passive), ryhius (: pres. flyidite) 'I excite (a god)' (6x, not including two cases as an ordinary zag. present of the homophonous root ryh' streeth'), 'and artirge (: pres. flients), latharn') 'I praise', found once as a 1sg. and twice as a 3sg. passive. The remaining forms, each attested a single time, are arease (: pres. sirvarn') 'I praise with song', obise (: dhare, but prep. obband-) 'I artend to', 'ghyie (: gdyari) 'I sing', punite (: pandai) 'I cefine (a hymn)', vajuar (: yuljari) 'I worship', and (prai) hue (no related present) 'I spur on (a god)'. All the verbs in question mean 'partise' or something similar.

It would be safe to say that no one has been quice sure what to make of these forms. As can be seen from the survey of the literature by Rasmussen [1983;39] n. 28), most of the scholars of the Neogrammarian period, including Delbrick (1887;442), Neisser (1902), and Brugmann (1906;52s), took them to be historical infinitives. study, according to this view, was properly a dative infinitive comparable to jid' ro conquer's its non-infinitival functions were atmousted to the frequent use of the infinitive and impersonal imperative (*for praising' > *let there be praising' > *let me (you, him) praise'). Facts cited in support of the "infinitive" theory were 1) the use of -se-forms in the second and third persons; 2) the unambiguous use of ripides as an infinitive in one passage (RV 8-4-17) and the possible or probable infinitival use of study in others (see below); and 3) the association of -se-forms with other sigmatic nominal forms of the verb, namely, the supposed participles ripiusāná- and binsāna- (: ohite) and the infinitive gratisān (: gratisi-).

[&]quot;Tucker (2002) makes a convincing case for identifying the root of isg. piyase as *p- 'stimulate mentally, excre' (< "Horg⁽ⁿ⁾-), distinct from the more familiar *p- 'reach, stretch' (< "b₁ erg*-)

Not counting observat t = 30.4, which, as Stephanic Januson suggests to me (p.c.), may be another example of our type. She will discuss the passage separately

³The purative connection between the isg, in -se and the forms in -sena- and -sens is taken for granted in Grassmann 1873, where it underlies the notion of "Doppelstamm", see p. 527 s.v. ter-

This approach, which still has defenders,4 is not very satisfactory. The grammatical ambiguity of the -se-forms is mostly a red herring: the 2sg, readings of stusé and gyntisé are entirely predictable, as are the third-person readings of stuse and carbyse. (Any athematic rsg. in -e can be parsed as a 3sg. "stative" in Vedic; cf. 1, 3sg. duhé 'I milk/(she) vields milk', 1, 3sg, grné 'I praise/(he) is praised', 1, 3sg. bruvé 'I say/(it) is said', etc.) In actual fact, the preponderance of 1 sg. readings among the attested -se-forms (ca. 75%) is quite striking. All the forms that occur only once (arease, obise, gayise, punise, yajase, and buse) are 1st singulars, and even stusse, in one of the hymns where it arguably figures as an infinitive, is an unambiguous isg. a few lines later.5 phjasaná- and bhasana-, which are not participles but adjectives based on adverbially employed s-stem instrumentals (cf. sábasā 'with strength' -> sabasāná- 'powerful', etc.; cf. Insler 1968), redundantly confirm the existence of the s-stem nouns *finas- (attested in Middle Indic phonetic shape as añias-) 'striving' and ohas- 'attention', but provide no support for a link between the nouns and the verbal forms 18g. phiase and ohise.6 The connection, if any, between the infinitive gratiani and 1sg. gratis is obscure; gratiani is inseparable from the similarly formed tarisani (: tip- 'penetrate') and stynisani (: sip- 'scatter', pres. stynáti), while gynisé is probably an analogical creation on the basis of 18g. stusé?

The alternative to seeing the -\$\tilde{e}\$ of study \(\tilde{a} \) as an infinitive ending, of course, is to take it at face value as the etymological ending of the 1, 35g. middle. This was the position of Oldenberg a century ago (1901:306-12), and more recently the view of the late]. E. Rasmussen (1985), with whom the modern study of the forms in -\$\tilde{e}\$ can be said to have begun. Rasmussen took study and its congeners to be the continuants of a PIE category that he called the "prospective." This, he said, was a modal formation marked by athematic inflection, \$\tilde{e}\$: as a balaut, and the mood sign *\tilde{e}\$. Reflexes of the active of the prospective, according to Rasmussen, were the Vedic 18g. injunctive/subjunctive stopam, the Old Irish unreduplicated future type 35g. \(\tilde{e}\$ strip \(\tilde{e}\$ strip \) and the Indo-Iranian st-imperatives Ved. \(\tilde{e}\$ strip \) (off. Thurmeysen 1946:410-1). The middle of the prospective—specifically, the paradigm 15g. "State-tide, 35g. "State-tid

This approach had the advantage of accounting for the 1sg. grammatical role of the 1sg-forms without having to posit an earlier infinitival stage. But the hypothesis of a new mood at the PIE level is a huge affront to the principle of Occam's Razor. Vedic 15g. statum, whether properly an injunctive with the full-grade vocalism of a subjunctive or a subjunctive with the secondary ending (-am) of an injunctive, clearly belongs to the system of the s-aorist; see Narten 1964:277 for the classic discussion.8 Likewise connected with the s-aorist is the st-imperative stori. as famously expounded by Szemerényi (1966), si-imperatives are haplologized 2sg. subjunctives in *-sassi/*-sass, mostly from s-aonsts.9 The haplology theory was expressly rejected by Rasmussen - a move he thought better of twelve years later, when he reversed his position and all but abandoned the prospective theory (1997:258-9).10 The third category that Rasmussen cited as a reflex of prospective, the Old Irish unreduplicated s-future (at re), was and is a formation about which we know nothing more than what its name says-that it contained *-s- or *-se/s- and was not reduplicated. This description applies equally well to the Greek future, the Sabellic future (cf. Osc. deiuast 'will swear', etc.), and (in part) the Baltic future (Lith. duős < *-s-t(i) 'will give', etc.). In principle, the possibility that Ved. stusé goes back to an athematic desiderative present (> future) of the Sabellic, Baltic, and (possibly) Old Irish type cannot be altogether excluded.11 But 11 18 much likelier a priori that the small and narrowly specialized class of -se-forms, briefly productive in the Rapeda but lacking any counterpart in later Vedic or Avestan, was a Vedic innovation.

Our discussion, then, will proceed on the basis of the following assumptions:

- t) the morphological formation represented by the type stust was a post-PIE creation;
- 2) the -e of the ending -se (-se) is historically the primary ending of the 1sg. middle;
- 3) some of the ten attested forms in -se are original and others are analogical; and
- 4) the only -se-form that can be safely identified as original, based on its core semantics, morphological simplicity, and frequency of occurrence, is stusy itself.

Let us now ask a simple question: if suse was an innovation, what purpose did the innovation serve? Clearly, some element of meaning was conveyed by stuse that could not be expressed so well by any other form; what could this have been? The

^{*}Most recently Gotő 2011:131

The hymn is RV 8 23, where must can be construed as an imperatival infinitive in verse 2 (and is so taken by Geldner [1951]), but is grammatically parallel to the isg. finite forms have and grave in verse 7.

⁹ Pripasand - Pripac and isg. Pripase are in fact argualty from different roots, the former being from 'p' and the latter from 'p'. (cf. n. r) obuse is the synchronic result of adding -sr to the athernatic present stem objects obtain i), it can have no direct connection to obtain and obtains.

On all these forms see further Fortson 2012:100-2, who argues that there was no Vedic infinitive ending se (-se) at all

⁸The combination of full grade and secondary ending, though trivially explainable in more than one way, has given this form an undeserved prominence in the IE speculative literature. See now. Kummel 3018:94-5, summ Kortland; 2004;8 and deswhere.

The idea is actually already found in Benfey 1832-397. Szemerénya understood the process to be innerindo-franian, but it is now known to have been of PIE date, and older than the separation of Anatolian from the rest of the family. Cf most recently Jasanoff 2013.

¹⁰So I interpret his statement that "[1]n the face of these uncertainties it must be admitted that the limits of the 'prospective' within IE morphology remain indeterminable in the present state of our knowledge and so must be left aside for future reconsideration" (269).

[&]quot;This possibility is in fact pursued by Hill (2004, 133–35), who posits a PIE athematic r-future of the type 348, "https://wiw.ll give', 3pl "https://hin. It is clear from other evidence, however, that the ancestor of the Baltic and Sabellis forms had Narren ablant (Jasanoff 2002;13), with references). Hill does not explain why the -w-of-study is short, given that the denderative/future morpheme was "hip., not "s.).

answer was pinpointed by Rasmussen (1985:392-3), who observed that the function of stusé is basically that of an instantaneous future or performative-a verb whose action is accomplished by the act of being uttered.12 It thus means 'I will now praise' or 'I hereby praise' in examples like the invocation RV 1,150,1ab prá dvává vajňaíh pythivi ytävýdhá / mahí stuse vidáthesu prácetasů, rendered by Jamison and Brereton "I shall start up the praise, along with sacrifices, to Heaven and to Earth, the two great oncs growing strong through truth, the discerning ones";13 6.51.3ab stusá u vo mahá rtásya gopán / áditum mutrám várunam sujätán "I will praise you, the great herdsmen of truth: Aditi, Mitra, Varuna, the well-born ones": 4 and 8.84.1 préstham vo átithim / stusé mitrám iva priyám / agním ... "The dearest guest will I praise for you-dear like an ally-Agni ... "15 Even in cases where stusé is rendered 'ich will preisen' by Geldner, the sense is not desiderative or prospective-this is more typically the value of the subjunctive-but 'I will now praise' or 'let me now praise', with reference to the instantaneous future; cf. 2.20.4ab tám u stusa índram tám grnīse / yásmin purá vävrdhúh säsadús ca "I shall praise him-Indra-I shall sing to him, alongside whom long ago they grew strong and exulted";16 5.58.1ab tám u núnám távisímantam esám / stusé ganám márutam návyasīnām... "Now will I praise this (flock) full of power, their Marutian flock of newer (hymns [= thunderclaps]) ... ";17 and 8.7.32 sahó sú no vájrahastaih / kánváso agním mariidbhh / stusé híranyavásíbhih "O Kanvas, for us I will praise Agni along with the Maruts, who have maces in their hands, who have golden axes,"18

The performative and instantaneous future meanings are expressed by the same morphological category in Vedic. For most verbs of speaking this is the aorist injunctive (cf. Hoffmann 10907:250-41); one has only to think of the familiar 1,32.14 indrasyn mi viridni prá vocam "Now I shall proclaim the heroic deeds of Indra." For the root stu-, however, the "extended performative" function, as we may call it, is expressed by the 15g. present stujé. stujé thus takes the place of a 15g. injunctive form which, had it been attested, would have been "stuji (cf. 15g. aor. indic. astaji [4×3]). But no s-aorist injunctive forms are attested from stu- in the Rywida—a distributional peculiarity which, like the absence of an active indicative ("statuaum, etc.) and a middle subjunctive ("statuaum, etc.) probably points to an earlier stage when the root stu- had

no s-aorist at all. This is also suggested by the fact that no aorist is formed by the cognate root status- in Avestan.

Avestan also sheds light on our problem in a more substantial way. The absence of an agrist comparable to Ved. star- in Avestan is made up for, so to speak, by the fact that the verb stauss- has two presents. One of these is the familiar Narten present OAv. staumi (= post-RV staumi) 'I praise', ptcp. stauuat-, YAv. staomi, staoiti (generalized full grade), mid. staoite, staomaide, etc., with secondarily thematized byforms 3sg. subj. stauuāţ, 2sg. opt. stauuōiś, etc. The other present, easily confused with the first, is seen in the 1sg. middle form stuite (< "stunni), mostly in ritual formulas with the preverbs ā, us, and fra. Typical passages for stuitē arc Y 1.21 yezt 68ā diduuaēša . . . ā tē arfhe fraca stutië "si je r'ai nui ... je fais pour toi l'éloge-préliminaire" (Kellens 2004:286); 20 Y 11.37 (= 0.4) frastuiië humatõibitască hüxtõibitască huuarštõibitască maββōibitască vaxzðβōibiiască varituucibiiască "Je fais l'éloge préliminaire (du sacrifice et du chant) au moyen de (pensées) qui ont été bien pensées...au moyen de (pensées) qui seront (bien) pensées..." (285);21 Y 12.2 us gâus stuite tăităațeă hazanhațeă "Ich schwore ab dem Diebstahl und Raub des Rindes"; 22 Y 12.3 namanhā ašāi uzdātā paitī auuat stuiiē "Bei den unter Verehrung für Asha aufgesetzten (Zaothra's) gelobe ich das: ... " (followed by the vow); Y 12.8-9 ästuitë humatem manë ästuitë hüxtem vacë ästuitë huuaritem sixaoθanəm / ästuijë daënam māzdaijasnīm "Ich schwöre mich cin auf den gutgedachten Gedanken, ich schwöre mich ein auf das gutgesprochene Wort, ich schwöre mich ein auf die gutgetane Handlung, ich schwöre mich ein auf die mazdavasnische Religion." The usual view of this form, starting with Narten 1968:17, is that it shows the common analogical substitution of zero grade for full grade in the "weak" stem of an acrostatic paradigm. Apophonic renewal of this type is well documented, both in general and in the specific case of the Narten present Hr. *stass-. Secondary zero grades are uncontroversially on hand in Ved. 3pl. stuvánti, pres. ptcp. stuvánt- (for expected *stávati, *stávat- [< *stév-nt-]), and YAv. 2, 3sg. opt. *stuitå, *-itâţ (for expected *statut-). În

³Rasmussen uses the German term Kninzulerusfull, referring to the "consedence" of unterance and action.
⁹All Vedic passages are from the Rgnota. It is a pleasure to be able to use the long-awared transition by our honorand and her co-author (Jamison and Brereton 2016), from which all English glosses are taken if not otherwise noted. Geldner (1919) for this passage has "Ein Lob stimme ich unter Opfern an..."

^{*}Geldner *Ich preise euch, die Wachter des hohen Gesetzes... *

[&]quot;Geldner "Euren lieben Gast preise ich, der beliebt wie ein Freund ist, den Agni . "

[&]quot;Geldner "Diesen Indra will ich preisen und loben, an dem sie vordem ihre Starke und Zuversicht hatten."

⁷Geldner "Jezzt will ich diese ihre kraftvolle Schar, die manutsche, preisen, der Jüngsten..."

⁸Geldner "Zusammen mit den Manut, die Keulen in der Hand und goldene Axte tragend, will ich fein unseren Agus preisen, ihr Kaunyden."

[&]quot;#LIV (600) hestiantly sets up a PIE a-sours on the strength of Ved. anne, but the gaps in the Vedic structure, the absence of earse-hade cognares, and the term in general of old-a-sours beaute rout presents give grounds for skepticum. In my view, the two sets of sigmanc forms — the active subjunctive (faset, quant, etc.) and the middle indicative (anne, -qua, etc.) congruilly had lintle or nothing to do with each other, mea-look like it was once a free-floating subjunctive of the same type as right etc. 'into-Train', originally pritups associated with a Natren a pencint, but derivationally usuffiliated with any synchronic present or somet in Indo-Iranian proper, annet, on the other hand, was appeared by the nine-float replacement of "adutor, the historically expected up, corresponding to the tips." "passive" atoms databl' (cf. below). For the signaturation process compare "shalled" — shillows: [1 sg., about "avoide", "histid — artists; (sg., about "avoide", "histid — artists; (sg., about "avoide"), "histid — artists; (sg.

[&]quot;Reading "dag to for a to. The formula is repeated, with 16 for to, in Y 1.22. Kellens's translation supersedes
Bartholomae's "(50) press und lobe ich dich dafür "

[&]quot;Barthokomae apud Woiff 1910. "Ich verpflichte mich feierlich (darauf, daß) gut gedacht und gut gesagt und gut getan (wird alles), was zu denken und zu sagen und zu tun (1st) "

³³This comes from the Frauuarané (Zoroastrian Creed), as do the following examples. Translations are from Bartholomae/Wolff

the 2sg 1mpv. both languages have zero grade (cf. Ved. stubi, YAv. "stubi), suggesting that here, at least, the imperative *studhi 'praise!' may go back to Indo-Iranian times, if not to Proto-Indo-European itself,

But stude does not look like such a secondarily "zero-graded" form. The rest of the middle paradigm of staun- has full grade: cf. 35g. "staoite, staota, 1pl. "staomaide, ptcp. stauuāna-, matching Ved. 3sg. stave, ptcp. stavana- (+ thematized stavate, etc.).33 While it is common in cases of analogical change to find renewed and unrenewed forms side by side, it is hard to see why zero grade should in this instance have been introduced consistently into the 18g. of the middle and nowhere else. Formulas meaning "I swear" or "I forswear" are the last place one would expect to find a specifically innovated form; compare Eng. I do solemnly swear . . . , with the 17th-century use of do persisting to the present day. I submit, therefore, that studie is an archaism, the sole remaining trace in Avestan of an Indo-Iranian present middle whose paradigm in the singular, distinct from the "Narten" middle "stánai, etc., would have been i "stunái, 2 *stuidi, 3 *stuudi. The earlier existence of such a paradigm is independently suggested by the fact that the root stw- forms a passive agrist ástāvi in Vedic. Indo-Iranian passive agrists are linked via an IE derivational process to middle root presents of the "stative-intransitive" type in 3sg. *-di (< dialectal PIE *-di/*-dr); 24 the pattern is familiar from pairs like aor. ávedi 'came to light, etc.' ; pres. 35g. vidé, aor. áceti 'shone forth': pres. 3sg. cité, aor. (vi) śrávi = OAv. sräunt 'was heard': pres. OAv. 3sg. srusië, and others involving non-Indo-Iranian material.25 Young Avestan 1, "35g. stwiie beside Ved. dstavi fits perfectly into this picture, as do perhaps also the marginal Vedic zerograde middle forms 3sg. opt. stuvitá, 1pl. opt. (prá) stuvimahi, and especially ptcp. stuvāná- (paired with grnāná-). Decisive comparative evidence for a zero-grade middle root present comes from two other branches of the family: Anatolian, where Hitt. istumari 'becomes publicly known' can only go back to a preform "stumor; and Germanic, where, as I have argued, OHG stuet 'atones for, confesses' < *stumuiθ conceals an older preform 3sg, *stumai < *-6i,26

If Proto-Indo-Iranian inherited both a Narten middle *stáwai, *stáwai, etc. and a zero-grade middle *stuuds, *stuldi, etc., the two must somehow have contrasted in meaning. While we have no direct information on this point, it would be natural to suppose that the zero-grade paradigm, as the derivative of a PIE root agrist.27 would have had a more "perfective" set of meanings than its Narten counterpart, pos-

4) Vedic also has a handful of zero-grade forms, on which see below

sibly coinciding with the present-like uses of the Vedic agrist injunctive described by Hoffmann (1967:135 45 and 250-4). The performative use of YAv stutte ('I hereby (for)swear', etc.) would be consistent with this hypothesis. Let us provisionally assume, therefore, that Hr. 18g. *stuuás had performative value as well, and that when this form was lost in Vedic its functional slot was filled by the enigmatic 1sg. stusé. The contribution of Avestan to the problem of stusé is thus to suggest that whatever the exact morphological history of the Vedic form, it was the replacement of an Indo-Iranian um. *stuuái.

The task of explaining stusé can thus be seen as the problem of understanding how and why a Vedic form that "should" have surfaced as "stupe (< *stupe) was sigmatized to yield the actually attested stw-s-é. Framing the problem in these terms opens the way to a new solution. stust, it will be recalled, is not the only sigmatic form in Vedic without a counterpart in Avestan; the s-aorist astasi, -sta, along with its subjunctive (stasa-) and si-imperative (stasi), is similarly isolated. It is not unlikely that these facts are related. At the outset of its inner-Indic history, pre-Vedic *sture would have formed a functional minimal pair with the true "prospective," the subjunctive stava, mid etávai

pres. *sture' 'I (will) now praise' : subj. stava, -ai 'I intend to praise'.28

But the relationship of sture to stand, -ai would have been subtly altered by the creation of the s-aorist stas- (cf. n. 19). With an aorist in the picture, there would have been two subjunctives, one (stose [ni]) aligned with the agrist and meaning 'I intend to praise, start praising', and the other (stated, -ai) aligned with the Narten present and specifically imperfective: 'I intend to be praising' vel sim.29 Schematically:

: aor. subj. stast 'I intend to praise' *sture 'I (will) now praise' : pres. subi. stává. -ai 'I intend to be praising'.

The functional-formal mismatch is significant. In the meaning 'I (will) now praise, I hereby praise', "sturé had the synchronic value of an aorist injunctive (cf. above); vet from a formal point of view it would have appeared, owing to its lack of -r-, to be associated with the imperfective present stem. The creation of stuss, I suggest, was

²⁴ Here as elsewhere, I maintain the view that the primary middle endings were characterized by the line et nune particle 8-9, which was replaced in some IE branches, including Indo-Iranian, Greek, and Germanic, by the active inc et name particle 4-1.

³⁷The Indo-Iraman pattern is discussed, though against the background of different assumptions, by Kummel (1996'9-21); for the IE context see Jasanoff 2003:169-73 26 The family of OHG stuin and Go. stujan 'judge' is the subject of Jasanoff 2014, updating an earlier

discussion of sturn in Jasanoff 2003:170 and briefly anticipating the analysis of sture below.

²⁷ Le. the big-conjugation root agrist ancestral to Ved. detays

^{**}Needless to say, the two meanings were very close; the forms must have been virtually interchangeable in some contexts. Crucially, however, there were also contexts in which they were not interchangeable, and speakers found it useful to maintain the difference.

^{*}Prior to the introduction of the s-aonst, the subjunctive status- would have been the subjunctive both of the Narren present (imperfective) and the zero-grade present (perfective). With the creation of the s-aorist, the perfective function was transferred to the agrist subjunctive stass- (whether or not this was originally based on an s-present, as suggested in n. 19). Most of the relevant 18g, subj. forms are actually attested: pres. act. stávě (z×), mid. stávět (3×), aor. act. stávět (1×); cf. also YAv mid. "stavuáne (Vd. 19 7). There is no usg, mid. *stémi, since the agrist subjunctive of stu- is activum tantum.

a response to the need to provide the aorist subjunctive stásā with a performative counterpart that, so to speak, looked the part.

The process can be envisaged an either of two similar ways. Under one possible scenario, "stawf 1 (will) now praise' would have been felt to require more explicit marking as an aonst, and was directly remade to stagé. Under the other scenario, a transtrory distinction would have been introduced between more and less "aorised" readings of "stawf, via a proportion stadis". "stawf: 1 stays 1', where X was solvined at stagé. Either way, the signatized form stagé provided a better "fit" with the role of a performative/immediate future and replaced the older form. A trace of the s-less zero-grade present stem may survive in ptep. stawshafe.

If this picture is correct, the form stust would have been a 18g. from the very beginning, created in response to the need of speakers (or possibly just of poets) for a more transparent extended performative to take the place of the older 18g. *stwpf (= YAv. stuile). The advent of stuge set off a string of further developments. First, the ending -se was extended to the 1sg. of other presents meaning 'praise', 'sing', 'attend to', etc.; the new forms (gratie, arease, ohise, etc.) had the same value as their model. Second, and more interestingly, the use of stuse was in a few cases extended from the 1sg. to the 3sg. - a reflection, ultimately, of the accidental identity of the 1sg. middle ending -e < *-h2ei with the 3sg. "stative" (i.e. passive) ending -e < *-oi. As a 3sg., stusé means 'will now be praised, is to be praised', as in 1.122.7a stusé sá vám varuna mitra rátir "This gift of yours is to be praised, Mitra and Varuna" and 8.63.3 sá vidvám ángirobhiya / índro gá avrnod ápa / stusé tád asya paúmsiyam "Indra, knowing how, uncovered the cows for the Angirases. That manly act of his is to be praised."30 The obligational meaning evident in these and similar passages, which under ordinary circumstances would have been expressed by an agrist injunctive, is exactly what would have been expected from the displacement to the 3sg. of a form that did pattern as an aorist injunctive in the 18g. But the syntax of stusé qua passive, especially when it retained its accent in pada-initial position as in 1.122.7, could lead the Vedic poets to construe it, as many later scholars have done, as an infinitive. We thus find 8.4.17cd ná tásya vemi áranam hi tád vaso / stuté pajráya sámane "I do not pursue (anything) of his-for that is alien, o good one, (and it is) for Pajra Sāman to praise," where an infinitival analysis of stase is compelled, at least synchronically, by the dative agent pajráya sámane. The passage is discussed by Keydana (2013:239-40), who judges it the only verse in the Rapeda where a nominal interpretation of stust is unavoidable.18

For those fond of looking for analogies between linguistic and biological evolution, the serforms offer abundant material. The PIE root "steu- had a zero-grade present middle (s. sg. "stsulof"); cf. Hitt. stsuner; PCmc. "stunent[h]), distinct from the Narten full-grade middle (s. sg. "stsulof"); cf. Ved. staine, GK erverna 'declares, boasts'). Under pressure from the full-grade forms, the zero-grade paradigm was confined to peripheral uses in Indo-Irania; a specific instance of this was the specialization of 1sg. "strugdi (> YAv. stuite) as an extended performative. In Vedic, where III. "strugtii would have become "stane", an analogical change—a "mutation," so to speak—converted this to study, with an + that made the form more transparent, and hence easier to learn and pass on to later generations. In the period of expansion that followed, the newly viable study speed into new environmental niches (sig. and infinitely) and gave ries to new forms of "species" (grptist, etc.). This is the situation as we find it in the Rgovala, and it is also the point at which Darwinian comparisons can tastefully be dropped. Over the long term, the forms in -se showed themselves to be grammatical disnosauss, leaving not true in the later Samhiras.

Abbreviations

LIV = Kümmel, Martin, and Helmut Rix (eds.). 2001. Lexikon der indogermanischen Verben: Die Wurzeln und ihre Primärstammbildungen. 2nd ed. Wiesbaden: Reichert.

References

- Benfey, Theodor. 1852. Vollständige Grammatik der Sanskritsprache. Leipzig: Brock-
- Brugmann, Karl. 1906. Grundrijf der vergleichenden Grammatik der indogermanischen Sprachen. Vol. 2, part 1: Allgemeines, Zusammensetzung (Komposita), Nominalstamme. 2nd ed. Strassburg: Trübner.
- Delbrück, Berthold. 1897. Grundriß der vergleichenden Grammatik der indogermanischen Sprachen. Vol. 4: Vergleichende Syntax der indogermanischen Sprachen. Part 2. Strassburg: Trubner.
- Fortson, Benjamin W. IV. 2012, "Latin -rier and its Indo-Iranian congeners." Indogermanische Forschungen 117:75-118.
- Geldner, Karl F. 1951. Der Rig-Veda aus dem Sanskrit ins Deutsche übersetzt. Cambridge, MA: Harvard University Press.
- Gotō, Toshifumi. 2013. Old Indo-Aryan Morphology and Its Indo-Iranian Background. Vienna: Verlag der Österreichischen Akademie der Wissenschaften.
- Grassmann, Hermann. 1873. Wörterbuch zum Rig-Veda. Leipzig: Brockhaus. Hill, Eugen. 2004. "Die sigmatischen Modus-Bildungen der indogermanischen

³⁶ Sto too Geidner, in both passages. Genuinely difficult is 10-39-30th leptifi no disrept date narrath/ sit as stose magilonatin, which Geidner takes as a 19g. ("Mache, dails we use necht as schiemen beauchen, Gort Savari, and der unter den Lohnbertens toll apprisens worden") but Jamison and Brevon cred as a 19g. ("Mache for use numoderation (of wealth), 30d Savaza. I will prase (you)³) in company with our patrons"). Sigall (19d8:t81) also suncercode form in this passage as an infinitive.

PCF Geldner "Nicht wunsche ich dessen Bestz, denn das ist fremdes Gut, du Guter, das für Pajra Saman zu russen ist "It can hardly be an accident that this and a high proportion of the other passages in which study is potentially an infinitive or otherwise problemant (e.g. 8, 54, 8, 8, 3, 4, and 8, 44, 24) are in Book of

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- Sprachen. Erste Abhandlung: Das baltische Futur und seine Verwandten." International Journal of Diachronic Linguistics and Linguistic Reconstruction 1:69-171.
- Hoffmann, Karl. 1967. Der Injunktiv im Veda: Eine synchronische Funktionsunzersuchung. Heidelberg. Winter.
- Insler, Stanley. 1968. "ánjasá, půjusāná-, and the type sahasāná-." Zeitschrift für vergleichende Sprachforschung 82:1-23.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigneda: The Earliest Religious Poetry of India. New York: Oxford University Press.
- Jasanoff, Jay H. 2003. Hittite and the Indo-European Verb. Oxford: Oxford University Press.
- . 2012. "Did Hittite have si-imperatives?" In The Sound of Indo-European 2: Papers on Indo-European Phonetics, Phonemics and Morphophonemics, ed. Roman Sukač and Ondřej Šeřčík, 116–32. Munich: LINCOM Europa.
- 2014. "Gothic stojan (judge', Old High German stüen 'atone (for)'." In Munus amicitiae: Norbert Oettinger a collegis et amicis dicatum, ed. H. Craig Melchert, Elisabeth Ricken, and Thomas Steer, 113-20. Ann Arbor: Beech Stave.
- Kellens, Jean. 2004. "Les précautions rituelles et la triade du comportement." In Zoroastrian Rituals in Context, ed. Michael Stausberg, 283-9. Leiden: Brill.
- Keydana, Götz. 2013. Infinitive im Rgreda: Formen, Funktion, Diachronie. Leiden: Brill.
- Kortlandt, Frederik H. H. 2004. "Accent and ablaut in the Vedic verb." Indo-Iranian Journal 47:7-15. [Reprinted in Studies in Germanic, Indo-European and Indo-Uralic, 131-7. Amsterdam: Rodopi, 2010.]
- Kümmel, Martin Joachim. 1996. Stativ und Passivaorist im Indoiranischen. Göttingen: Vandenhoeck & Ruprecht.
- 2012. "Monosyllabic lengthening in Vedic acrists?" International Journal of Diachronic Linguistics and Linguistic Reconstruction 9:87–99.
- Narten, Johanna. 1964. Die sigmatischen Aoriste im Veda. Wiesbaden: Harrassowitz.
- 1968. "Zum 'proterodynamischen' Wurzelprasens." In Pratadanam: Indian, Iranian and Indo-European Studies Presented to Franciscus Bernardus Jacobus Kuiper on His Seixieth Burthday, ed. J. C. Heesterman, G. H. Schokker, and V. I. Subramoniam, 9-19. The Hague: Mouton. [Reprinted in Kleine Schriften, ed. Marcos Albino and Marthias Fritz, 1.97-107. Wiesbaden: Reichert, 1995.]
- Neisser, Walter. 1902. "Vedisch stuse." Besträge zur Kunde der indogermanischen Sprachen 27:262 80.
- Oldenberg, Hermann. 1901. "Rgveda VI, 1–20." Zeitschrift der Deutschen Morgenlandischen Gesellschaft 55:267–330. [Reprinted in Kleine Schriften, ed. Klaus L. Janett, 1.726–89. Wiesbaden: Steiner, 1967.]
- Rasmussen, Jens Elmegård. 1985. "Der Prospektiv—eine verkannte indogermanische Verbalkategorie?" In Grammatische Kategorien: Funktion und Geschichte. Akten der

- VII. Fachtagung der Indogermanischen Gesellschaft, ed. Bernfried Schlerath, 384–99.
 Wiesbaden: Reichert.
- 1997. "Processes of grammaticalization in Indo-European verbal derivation." In Sound Law and Analogy. Papers in Honour of Robert S. P. Beekes on the Occasion of His 60th Birthday, ed. Alexander Lubotsky, 249–62. Amsterdam: Rodopi.
- Sgall, Petr. 1958. "Dic Infinitive im Rigveda." Acta Universitatu Carolinae Philologica 2:135-268.
- Szemerénya, Oswald. 1966. "The origin of the Vedic 'imperatives' in -si." Language 42:1-6. [Reprinted in Scripta minora, ed. P. Considine and J. T. Hooker, 4-1719-24. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck, 1991.]
- Thurneysen, Rudolf. 1946. A Grammar of Old Irish. Revised ed. Dublin. Institute for Advanced Studies.
- Tucker, Elizabeth. 2002. "RV gymin-, tgmiya-, and phjate." Oxford Working Papers in Linguistics, Philology, and Phonetics 7:1-26.
- Whitney, William Dwight. 1889. Sanskrit Grammar. 2nd ed. Cambridge, MA: Harvard University Press.
- Wolff, Fritz. 1910. Avesta: Die heiligen Bücher der Parsen, übersetze auf der Grundlage von Chr. Bartholomae's Altiranischem Wörterbuch. Strassburg: Trübner.

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Gothic Verbal Mood Neutralization Viewed from Sanskrit*

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One of the methodological aspects of Indo-European studies that has made it such a successful enterprise is the way practitioners have typically recognized that data from the far reaches of the family must be taken into account and that such data can have consequences for solving puzzles in the individual branches that otherwise resist a solution. Karl Verner demonstrated this dramatically in 1877 with his discovery that the position of Vedic Sanskrit accent shed light on the hitherto puzzling grammatischer Wechtel of Germanic. And it is perhaps no accident that Verner called on Sanskrit to illuminate the Germanic facts, since Sanskrit has always held a special place in the study of the Indo-European family. And since Sanskrit, and more particularly Vedic, is the specialty of the honorand, and since she has contributed so much to our understanding of Sanskrit in itself and in the broader Indo-Iranian and Indo-European context.1 it is appropriate to invoke this language here and to make use of it in shedding light on yet another detail of Germanic, one not as significant as that which Verner dealt with but one that represents an otherwise unexplained fact nonetheless. Accordingly, in what follows, I lay out the Germanic facts and show how a comparison with Sanskrit can pave the way towards greater understanding of a particular Germanic syntactic construction.

The construction in question is found in Gothic and can be illustrated by the representative examples given in (1) and (2):

(1) ib saei nu gatairib . . . jah laisjai if he.who now relax.3SG.IND and teach.3SG.SBJV "if whoever who relaxes ... and (then) teaches" (Mt. 5:10)

*I would like to thank Brent Vine for the extremely helpful comments he provided on an earlier version of this paper, all of which served to improve it enormously

In this construction, as seen in (1) and (2), two or more verbs that are linked in some way (being found for instance in coordinate or disjunctive structures), and that are controlled syntactically in the same way (occurring for instance in an indefinite relative clause or a deliberative question), so that they therefore might well be expected to show the same modality, instead show a mismatch in mood, with the first verb(s) occurring in the indicative mood and the last in the subjunctive mood (also known as the "optative").2

This construction is a legitimate feature of Gothic syntax, and not merely a Greek feature transposed into Gothic through the process of rendering the Greek original into Gothic. That is, the corresponding passages in the Greek show subjunctive for all the verbs in question, rather than just for the last one; (3a) and (3b) give the Greek prototypes for (1) and (2), respectively:

- (3) α. ός ἐὰν οὖν λύση...καὶ διδάξη who if then loosen.3SG.SBJV and teach.3SG.SBJV Τ΄ φάγωμεν· ή, Τ΄ πίωμεν· ή, Τ΄ περιβαλώμεθα;
 - what car are sary or what drink are sary or what dress are sary

Thus the absence of nonindicative modality on all but the last verb in such instances reflects a deliberate decision on the part of the Gothic translator. Such cases can be referred to as "mood neutralization", since they involve the neutralization of the indicative-subjunctive modal contrast in Gothic into the indicative form of the nonfinal verb(s); an indicative verb is functioning in a subjunctive context aided and abetted by a subjunctive it is linked to in some way.

Interestingly, and perhaps somewhat curiously, this mood mismatch is not noted in most handbooks of Gothic, even those that have some treatment of syntax; for example, there appears to be no mention of it in Braune-Ebbinghaus 1973, in Wright-Savce 1964, in Guxman 1968, in Bennett 2006, nor in Kotin 2012. And in those that do mention it, it is given only a very superficial or rather non-explanatory account. For instance, Mossé (1956:184), in discussing Matthew 6:31 (example (2) above), says that the subjunctive here "alterne avec l'indicatif, marquant peut-être un effet stylistique," though without specifying what that "stylistic effect" is or why it would be employed here; and Feuillet (2014:102), following Mossé, says "le subjonctif alterne avec l'indicatif sans raison apparente. Mossé (1956:184) cite cet exemple curieux [Mt. 6:31]

^{&#}x27;I first met Stephanie in 1975, when I was a graduate student and she was a visitor at Harvard, and I have followed her career carefully ever since, learning from and enjoying her research and making use of it in my classes, especially when I have had the chance to teach the history of Sanskrit. It is my great pleasure to be able to take part in this honoring of her.

⁽²⁾ hra matjam afþþáu hra drigkam afþþáu hre wasjaima? what eat.IPL.IND or what drink.IPL.IND or how dress.IPL.SBJV "What shall we ear? Or, what shall we drink? Or, in what way shall we be dressed?" (Mt. 6:31)

[&]quot;This Gothic mood derives formally from the Proto-Indo-European optative but has uses reminiscent of the subjunctive in other languages so that either label can be justified, sources seem to be more or less split as to whether to label this mood an "optative" or a "subjunctive".

où nen ne justifie apparemment le changement de mode." Lambdin (2006:134), in his discussion of mood, simply draws attention to instances such as (ia), in which "two verbs [that] are temporally sequential show an unusual feature, in that only the second verb is placed in the subjunctive," but offers no explanation for it.

The construction does receive some attention in the older more specialized literature, but again not in a particularly santsfactory way. Several 19th-century scholars, in particular Kohler (1872), Erdmann (1873), and Bernhardt (1877)—cited by Streitberg (1920:207)—saw in the use of the optative in such sentences an indication of a dependent, almost subordinate, status for the last conjunct, perhaps involving some distancing" (Bernhardt: "entfermtere handlung"). Exactly what sort of subordination is involved here is not clear, nor what "distancing" would mean in this context, i.e. a particular type of subordination or something temporal or just what. Streitberg himself (op. cit.) is properly skeptical of these accounts, following Mourek 1893 in this regard.

Besides examples like (1) and (a) that involve the neutralization of mood forms found in the Greek original, there is another type of mood mismatch between Greek and Gothic. Lambdin (2006:194), for instance, further notes examples where the "Gothic translator shows a tendency to introduce the subjunctive in the second element of a double question, apparently feeling a subsodinate relationship (conditional, causal, purpose) between the two clauses not apparent in the Greek," as in (4):

(4) bas satjiþ weinatriwa jah akran þize ni matjai who plant.3SG.IND vines and fruit their not eat.3SG.SBJV "Who plants vines and then does not eat their fruit?" (1 Cor. 9:7)

In this latter type, the Greek has two indicative verbs (thus \$\phi\cress{e}\text{in} \text{ options} = \text{ornesponding to the verbs in (4)), so that the introduction of a subjunctive in the Gothic, rather than the neutralization of a subjunctive, is what is innovative vis-a-vis the Greek original.

Thus there are both cases of mood neutralization, where Gothic fails to observe mood forms found in the corresponding Greek prototype, and cases of mood introduction, where the nonindicative mood in the Gothic is at odds with what is found in the Greek. The mood introduction seems to be a case of more nuance being added into the translation than appears to be present in the original, and may well involve interpretation on the part of the translation. Sa Lambdin suggests.\(^1\)

However, the mood neutralization remains unexplained, and while it could likewise involve a translator's interpretation, the fact that it is synchronically somewhat opaque—a status that the difficulties scholars have had accounting for it would seem to suggest might point to the need to approach it from a dachronic perspective. and seek a historical explanation for the synchronic oddity. An explanation of this sort that is more historically oriented was put forth by Davis (1929), and it is of more interest as well from the Indo-European angle. While perhaps overreaching somewhat in its treatment of the Indo-European sources of various mood uses in Gothic, Davis's proposal nonetheless points the way to such a historical explanation. He seeks to account for numerous functions of the Gothic indicative, including volitive and future uses, as survivals of the Proto-Indo-European injunctive, a verbal form "having secondary endings but no augment and used without distinction of tense or mood" (1929:427), and he includes examples such as (1) and (2) in his catalogue of Gothic indicative functions to account for.4 It can be argued that this account goes too far in two ways: first, the future use of a present indicative is probably so typologically ordinary that it does not need an explanation in deep historical terms that refers to a Proto-Indo-European construct,1 and second, volition does not seem to be among the typical uses of the Indo-European injunctive, to judge from its use in Vedic Sanskrit (cf. Hoffmann 1967, Kiparsky 2005). Despite these objections, invoking the injunctive turns out to offer a basis for understanding the Gothic construction in (1) and (2), once the appropriate injunctive properties are focused on.

In particular, there is one interesting fact about the Vedic injunctive that is noteworthy in this regard. That is, in Vedic, injunctives, which have no inherent tense or mood and are unmarked morphologically for these categories, co-occur in sequences with verbs that are overtly marked for tense and/or mood and have a tense or modal meaning appropriate for the verb they are connected to. Thus one finds injunctives sequenced with imperatives, as in (sa), with subjunctives, as in (sb), and with optatives, as in (sc).⁵

- (5) a. píbā imám édám barhíl) sado máma drink.25G.IMP this on-this grass sit.25G.AOR.INJ my "Drink this! Sit here upon this ritual grass of mine." (RV 8.17.1bc)

"When shall I be within Varuna?...When shall I, with good thoughts, look upon his mercy?"

Finat is, at least in the original as we have it now; it is always possible that Wulfila in working on his translation was looking at a slightly different Greek text from the canonical version and variants now available to us

^{*}Davis gives a few other examples beyond those given here, including Lk. 17:8, Jo. 6:53, and t Cor. 11 29. It is unclear if these plus (i) and (a) constitute the entirety of the mood neutralization examples

^{**}Compare English uses such as I leave for Paris temorrow, where the adverb allows the ostensible present verb to have a future interpretation.

^{*}Similar examples occur in Vedic of the injunctive sequenced with overtly tensed forms, but instances are given here only of relevant mood forms, given the focus on Gothic mood neutralization. The Rigivedic translations here are from Jamison and Berreton 2014; naturally, I am especially pleased to be able to make use of this excellent work here.

c. só asmai căruś chadayad utá syāt (RV 10.31.4d)
he him.DAT beloved seem.3sG.INJ and be.3sG.OPT
"That one seems beloved to him and so he should be."

This Vedic injunctive usage has an exact parallel with the Gothic construction in that there is neutralization of mood through the use of the injunctive; the injunctive carries a certain modality in the presence of an overdy mood-marked verb that it is connected to. That is, the injunctive itself, being inherently moodless, takes its mood from the mood marking of a verb associated with it in a given syntagm. The Gothic equivalent of the injunctive here would be the simple present indicative, as unmarked a verb form as the Gothic system permits. It is thus the Gothic indicatives that are special in sentences such as (1) and (2), not the subjunctives. Davis is therefore correct in looking to the Indo-European injunctive for the seeds of the indicative usage of (1) and (2) and the several other examples like them in Gothic, but it is the particular mood-and-tense sequencing characteristics of the injunctive that make the comparison, and thus the explanation, compelline.

To be sure, there are differences between the Vedic injunctive sequencing and the Gothic mood neutralization. For one thing, the Vedic usage comes up in sequences both with tensed verbs and with modally marked verbs, while this Gothic usage is more limited. But such a limited instantiation of this construction in Gothic could be a function of the nature of the texts (Bible translation) or of the limited extent of the texts; more likely, perhaps, is that this usage is truly a remnant, just barely holding on in Gothic. Second, as (5b) shows, in Sanskrit the injunctive (khyam) can follow the mood-marked verb (bhuvāni), whereas in Gothic the neutralized verb seems always to precede. This ordering difference is perhaps connected to the freer nature of ordering of words in Vedic, where factors such as meter and focus that are absent in Gothic play a role in phrasal and sentential word order. Alternatively, it could have to do with differences in basic word order between the two languages, Vedic being essentially verb-final (SOV) and Gothic not, though admittedly it is not clear why a difference with the positioning of mood-neutralized verbs would depend on the basic positioning of the verb. It does not seem that the translation process could be responsible here, because the translator presumably would have had a choice, if the option were available, to make the final verb in a sequence indicative and an earlier one subjunctive. So presumably the ordering differences between Vedic and Gothic mood neutralization in verb sequencing are to be taken seriously, even if an answer as to why there are such differences is not readily forthcoming.

One final, methodologically important, caveat must be voiced. There is some potentral for taking these developments to be independent annovations in each language, since shifts involving mood or other types of verbal categories in verbal sequences are not all that uncommon. In Gothic itself, for instance, there is the mood-introduction phenomenon mentioned briefly above, which, while it may involve nuances of inter pretation on the part of the translator, on the surface presents exactly an innovation in mood marking in a sequence of verbs. And in colloqual American English, one can hear utterances such as [he will post] as opposed to letting it go and more on, where standard usage would be ...letting it go and moring on, again offering a reduction of verbal marking in one of a set of coordinated verbs. 7 Moreover, such developments are not restricted to Indo-European languages. In Maragoli, a Bantu language of Kenya, for instance, 8 coordinate structures apparently occur in which one verb has overt morphological marking and the other lacks those markings altogether. Thus there may be a certain naturalness to this sort of neutralization that makes independent innovation difficult to rule out entirely.

Still, differences and caweats aside, this Gothic construction, labeled as "unusual" by Lambdin 2006 and "sans raison apparente" by Feuillet 2014, as noted above, makes more sense once it is viewed in the broader Indo-European context that comparison with Sanskrit affords. Seen from this angle, it represents a precious archaism in Germanic of what is likely to be a feature of Proto-Indo-European syntax of mood expression with the injunctive.

Abbreviations

Braune-Ebbinghaus 1973 = Braune, Wilhelm. 1973. Gotische Grummatik mit Lesestucken und Wörterverzeichnis. 18th ed. revised by Ernst A. Ebbinghaus. Tübingen: Niemeyer.

Wright-Sayce 1954 = Wright, Joseph. 1954. Grammar of the Gothic Language and the Gospel of St. Mark, Selections from the other Gospels, and the Second Epistle to Timothy with Notes and Glossary. and edition with a supplement to the grammar by O. L. Savce. Oxford: Clarendon.

References

Bennett, William H. 2006. An Introduction to the Gothic Language. New York: The Modern Language Association.

Bernhardt, Ernst. 1877. "Der gotische Optativ." Zeitsdrift für deutsche Philologie 8:1–38. Davis, Edward P. 1929. "The injunctive in Gothic." Modern Philology 20: 447-32. Erdmann, Oskar. 1873. "Zur erklärung Otfrids." Zeitschrift für deutsche Philologie 5:338–40.

[&]quot;This statement, which I heard while listening to a felevision broadcast, was uttered by one of the amouncers of the NBA playoff game between the Oklahoma City Thunder and the Los Angeles Clippers on Finday, May 9, 2014. See also Zwickly 2014 for discussion of what he calls "coordination-off-the-mark", an example of which is "Ane you 65 or older and suffer from back pain" (where the tense-marked "... and do you saffle" would be expected by many speakers, Zwickly and myself including.

⁸I base this on information I received from Brent Vine about work he learned of (via p.c.) by John Gluckman and Margit Bowler of UCLA on the language

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Feuillet, Jack. 2014. Grammaire du gotique. Paris: Champion.

Guxman, M. M. 1958. Gotsky jazyk. Moscow: Librokom.

Hoffmann, Karl. 1967. Der Injunktiv im Veda. Heidelberg: Winter.

Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigneda: The Earliest Religious Poetry of Indua. New York: Oxford University Press.

Kiparsky, Paul. 2005. "The Vedic injunctive: Historical and synchronic implications." The Yearbook of South Asian Languages and Linguistics, 219–35.

Kohler, Artur. 1872. "Der syntaktische Gebrauch des Optativs im Gotischen." Germanistische Studien: Suppliement zur Germania, ed. by Karl Bartsch, 1:77-133. Vienna: Carl Gerald's Sohn.

Kotin, Michail. 2012. Gotisch im (diachronischen und typologischen) Vergleich. Heidelberg: Winter.

Lambdin, Thomas O. 2006. An Introduction to the Gothic Language. Eugene: Wipf & Stock.

Mossé, Fernand. 1956. Manuel de la langue gotique. 2nd ed. Paris: Aubier.

Mourek, Václav Emanuel. 1893. Syntaxis složených vét v gotštiné [Syntax der mehrfachen satze im gotischen]. Prague: Česká Akademic Věd a Umění.

Streitberg, Wilhelm. 1920. Gotisches Elementarbuch. 5th ed. Heidelberg: Winter.

Zwicky, Arnold M. 2014. "Coordination off the mark." Arnold Zwicky's Blog: A Blog Mostly about Language, post of 11 July 2014. http://arnoldzwicky.org/2014/ /07/11/coordination-just-off-the-mark/

Observations sur l'intercalation du Hādōxt Nask dans le Yasna

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L'édition du Nirangistân par Firoze M. Kotwal et Philip G. Kreyenbroek (1992–2009) a permis de constater la pratique, dans le nire zoroastirea antérieur au Xe. a, de l'intercalation du Hādōxt Nask (HN) dans les chapitres gâthiques du Yasna (Kreyenbeck 2008:88–90). Als auire, Alberto Cantera (2013:105-6) a pu conjectuere que l'insertion de HN1 se situait après l'Afam Wohi introductif (Y27-14) et celle de HN2 après la dernière Gâthà (Y35). Ce m'est un plaisir de faire à Stephanie Jamison l'hommage amical de ces quelques réflexions supplémentaires.

I L'Asam Vohû et le Hadoxt Nask

La situation que Cantera attribue à HNs se justifie pleinement du fait qu'il s'agit d'une sorre de commentaire de l'Ajim Vohū, dont je rappelle préalablement le texte, avec une traduction en mot à mot:

aṣm vohū vahištəm astī Le bon Aṣa est très bon, uštā astī uštā ahmāi uštā est uštā pour lui,

hiiat aṣāi vahištās aṣm ce qui signifie qu'Aṣa est pour le très bon Aṣa.

HN1 met l'Aism Vobie en rapport avec le thème de la mort, dont se chargera HN2, en attribuant l'avant-dernière place en ordre de mérite croissant à la récitation ustime urusuaise galièhe « au dernièr tournant de la vie » (Kellens 2010;86-61).¹

2 Le rapport de l'Afom Vohu avec Y43.1 et le Y51

Le deuxième syntagme de PAism Volvi, usta ast usta almai, est une référence évidente aux deux premiers mots de Y43.1, première strophe du texte qui, selon HN2.2 (répété par 4 et 6), assure d'abord la sérénité du défunt, puis le conduit au salut

L'ultime et suprême récitation est étrangement indécerminée, mais la restriction à la manuaise triade perisée-parole-action et la substitution de fin + usraiu pairi + ablatif à <math>nuh + bur pour exprimer son rejetpourrait évinquer la séparation finale des bons et des méchants à l'entrée de l'au-delà (told <math>n.49)

uštā ahmai, yahmai uštā kahmācīţ vasā xšainąs, mazdā dāsiāţ ahurō utaisūtīt, tsuusīm gaţ tor vassmī ažsm dərsidiiāi, taţ mōi dā ārmatiē rāiiō ašīš, vaŋhsuš qaem manaŋhō

« A souhait pour celui, quel qu'il soit, à qui le Maître Mazdā, qui le peut s'îl le veut, accorde le souhait! Mon souhait à moi, c'est aller au rajeunissement et à la force, et c'est soutenir l'Agencement. Donne-moi cela, ô Juste-pensée: que la ve de la bonne Pensée sout des envois de richesse! »

Sı le premier syntagme de l'Afam Vohā, afam vohā vahistam astī, est, comme le second, une référence textuelle, on ne peur le rapporter qu'à Ys1,20b afam vohā. Une cibture serait alors érablie du début de la Gāthā nistannaist à la fin de la vohusciabrā, plus précisément son antépéndutième strophe.

3 Les reflets de Y43.1 et du Hādoxt Nask dans le Y51

Dans la première partic du Y51 (1–11), les trois strophes successives 6, 7 et 8 accumulent les parallèles terminologiques à Y43.1 et au Hādōxt Nask:

a. Y51.6 c' apime aphini urusaté « lors du dernier tournant de l'état-d'existence » évoque HNI useme urusaire gaisehe cité ci-dessus. Sans doute, abu- n'est pas le synonyme exact de gaise, mais il le devient en portant la qualification juuant- (HN2.a. etc. juitó anjud) et, d'ailleurs, gaise est mentionné dans Y43.1 e' vayibui gaêm mananjóo.

b. Y51.7 c tsuušší utaŭŭiti renvoie à la première proposition infinitive régie par vasami (Y43 cc' utaŭiŭiti tsuuššim gaț.tôi).

c. Y51.8 b'c uŝtă yā afım aladre huno sī maforă ŝiiātă « ...ulsă pour celui qui a toujours soutenu l'Agencement! Celui qui connaît le mafora est tranquille...» combine la citation de uŝtă, un parallèle à la seconde proposition infinitive (afım asrridisăi) et Pévocation de l'état qui, selon HN2.2 etc., exprime la sérénité du défunt (săssi: gén. sing, săstul).³

4 La seconde partie du Y51 et le récit de HN2

La seconde partie du Y51 (12–22) consiste majoritairement en un catalogue des nomspropres comme il en existe un, et un seul, dans chaque Gáthā. Les quatre premières strophes semblent dresser une topographie de l'au delà, mentionnant successivement le « pont de l'hiver » (12 à ° perstau zumō); l' « » pont de l'amasseur » (13 b' cimunatō

²On peut aussi s'interroger sur la possible concordance entre le xiathra « Pouvoir », qui est la préoccupation prégnante du Y₅₁, et Y_{43,1}th visso, xiauas

paratău), la « maison de la Tromperie » ou enfer (14 c' drûjō damânē), et la « maison du chant d'accueil » ou paradis (15 b garō damane).

Dans les strophes suivantes, les mors daënă- (17 et 19) et cisti- (16 et 18), qui désigne à la fois l'apparition lumineuse de l'aurore et l'illumination mentale, alternent avant d'être réunis (21).

Dans le même passage, à chaque personnage! est atribuée une action qui peut étre perçue comme un élément du processus salvateur conté par HN2. La cisti qui illumine Vistispa a pour teneur 16 c' abb ni susciliai ustà a que l'alsi nous apparause! » ou « que l'alsi soit récité par nous! ». Plus crûment encore, « Foralsostra Huufguus montre mon corps apprécié (ou le corps apprécié (ou moi) à la bonne Baña » (17 act barzedapn môs firminosirs), inusé guus datelosti tabririm, datinautai vanjunisti). L'homme donné en exemple au(s) Maidini, mápha(s) Spitāma(s) est « celui qui, par sa daénd, trouve l'état-étostence » (s) bé datenaisi métalman soj antimi).

En conduisant inductablement à l'hémistiche 20b fondateur du premuer syntagme de l'Afam Vohé, le Ys1 apparaît comme une paraphrase de Y4,31 nouvrie des ingrédients qui composeront HN2. Ceci nous invite à considérer qu'il est à l'origine le récitatif d'un rite funéraire et que l'aureur du Hádóx Nask le savait parfaitement. Il le savait parce que la doctrine eschatologique que son récit traduite na cres explicites était en possession de ses traits essentiels lors de la composition des Gáthás, si bien qu'il y a continuité entre le rite ancien du Ys1 et le rite récent du Yasna avec insertion du Hádóx Nask.

5 Autour du Y51

Il faut aussi scruter l'environnement du Y₃1. Les lumières du soleil, dont l'auteur de Ve 19,3 a relevé la présence dans l'avant-dernière strophe du Y₃0 (10 c modă ½'ng), peuvent être considérées comme celles du lever⁴ pour camper, comme le fait V19-38 dans la cérémonie Vidévdâd, le décor autoral de la rencontre des deux âmes. Et le mariage de celles-ci est assimilé, dans le Y₃3, à celui de l'autore et des on père le soleil. On peut se demander si le projet d'introduire le Hādoxt Nask dans la récitation du Yasna n'est pas la raison immédiate de la sélection et de l'articulation des deux Gârhâs monoblàtiques, la funéraire (Y₃1) et la matrimoniale (Y₃3), à la fin du corpus gâthque.

Selon les trois descriptions que l'Avesta lui-même en ait préservées (Y57.2-8, Y57.19-26 et Ytto.88-94; Kellens 2012:55-7), le rite du Yasna pouvait ne pas comporter la récitation complète de ce que nous appellons aujourd'hui l'Avesta ancien.

¹Incertain, car ce motif isolé a disparu de la tradition ulténeure

^{*}En vieil-avestique, désigne peut être l'aire sacrificielle

On ne peut se prononcer sur Dajamāspa, dont la strophe (18) est mal compréhensible, en partie à cause de l'unique attestation vicul-avestique, au plunel, de x'armah.

[°]Il faut noter que la variante du récit de HN2 donnée par Vyt8 se présente comme un fraina atypique dont l'interpretateur est l-rassostra.

^{&#}x27;Sur alm-, voir ci-dessus. gains est aussi attesté dans cette strophe (c' gauchità)

⁸Mais il semble que, dans le rite propre de la Gàthà spatta manniu, ce sost celles du zénith

L'intercalation de HN implique la présence de l'Asim Vobû, de la Gâthà ustanuaiti, peut-être de la spanta.mainiu à cause de Y50.10, du Y51, et du Y53, mais non de la Gâthà ahunauuait et du Yasna Haptanhaiti.

Alberto Cantera strue l'intercalation de HN2 après le Y33 parce que c'est la place des textes parallèles du V19 et du V318 dans les rites respectifs où ils sont introduits. La raison est bonne, mais il y aurait aussi une logique à ce qu'il ait été inséré entre le Y31 et le V33. Il assumerait ainsi le pouvoir « briseur d'obstacle » que le second Yasna Haptanhäiti exerce dans d'autres variantes de la cérémonie (Vr 20.2; Kellens 2011:46-7) et le chant du mariage des deux âmes apparaîtrait comme l'apothéose du salur.

6 Le rite du Yasna selon HN 2.13

уаў turn ainim auuažnosi saocaisaca krrmanuansem baosannasca varascobrāsca vardžiniem uruumvistnisiyca krrmanuansem day turn nišhidosi gáddica srhunasió apasca vay'bil yazəmno distrəmca alumalse mascali narrmca alauuansem * kusinuuquo amataça ajannem distriates

« Chaque fois que tu as vu un autre faire monter la flamme et les [...], étendre les branches et (en) faire des jonchées végétales, tu te mettais à réciter les Gáthàs, à sacrifier aux bonnes eaux et au feu (fils) d'Ahura Mazdā, à réjouir l'homme partisan de l'Agencement, qu'il vienne de près ou de loin ».

Il passe pour acquis que la Daēnā oppose ici les acres peccamineux de quelqu'un désigné comme « autre » à la vertreuse piété de son interlocuteur Urunan. Mai Pinterprétation péjorative des locutions participlaise de la subordonné ne repose que sur deux indices troubles: la traduction pehlevie, dont le rapport avec le texte avestique est insaissable, ° et le reflet que sauc(a)inis 'semble offirir à 'ya_1.4 susoniint, qui définir un traitement inadéquat du haoma, mais dans un contexte qui ne fait pas apparaître clairement si la condamnation est absolue ou circonstancelle.¹⁰

HN3.13 présente par ailleurs une singularité qui m'est apparue en 1995 (loc. cit., puis 2012;7): c'est le seul passage avestique qui mentionne les trois textes composant le Yasna possgàthique, la Dahmā Āfriti (Y60, I Păraß Njiyāyīn (Y62), et Pāb (Y63–70), traduits en actes et disposés en hysteron proteron. Compte tenu de ce facteur, la phrase tout entière semble décrire la structure générale du Yasna dans la visée du net Hādōx, en distinguant deux parties:

t. Un « autre » procède à la phase préliminaire, qui consiste à allumer le feu et à

disposer la jonchée rituelle, ou à la phase haomique, qui s'achève soit avec le Y33 sı la Gàthà *ahunauuaitī* est récitée, soit avec le Hōmāst, donc l'*Aṣ̄rm Vohū* de Y27.14 suur de FHNi.

2. L'Utausa entame ensuite sa partition, d'abord son chant de salut commençant par la Gâthă usiasusuist, puis, après l'interruption de Y53-HN2 (ou vice-versa), les chaoitres finaux de la cérémonie.

A la suite de quoi (HNz.14), Ahura Mazdà peut constater l'exécution d'un « long Yasna » (dar270, yašti-) avec intercalation (ham.paršti-).

Si cette hypothèse est correcte, HN2.13 décrit la distribution de la charge de réctation entre deux officiants, le premier présenté comme aussi « autre » qu'un vivant peut l'être pour un mort, le second prétant sa voix à l'Uruuan. L'itérativité des optatifs précéritaux auuanimis et milhibais serait alors limitée à la répétition du rite chacune des trois nuits où l'fame stague « entre le cadaver et le paradis ».

Les trois textes possgàthiques mentionnés par HN3.13 artestent la même succession de trois composés à second terme "brritis' - l'hubrritis - bonne offrande », utita.brritis, vanjus.brritis' (Y60.6, Y62.1 et 7, Y68.14). Christian Bartholomae (1904.448 n. 2) avait pressenti que, sous l'apparente banaluté de la traduction e gewünschte Darbringung », usita.brriti-pouvait dissimuler autre chose : « Oder vielleicht Darbringung des Worttes vitata' und der damit beginnenden Strophe (Y43.1) ». Out, mais le premier terme de wanta.brritis' est quant à lui le dernier mot de Y51.22 et pourrait signifier « offrande du mor munta et de la strophe qui s'achève par lui » (Redard et Kellens 201311). Les strophes Y43.1 et Y51.22 délimitent le chant funèbre de l'âme, partie gâthique qu'enserrent les intercalations de HN1 et de HN2. L'Avesta-Ausgabe, qui passa si longtemps pour une épave hasardeuse, est un bon témoin de la continuité de ses litturgies.

Bibliographie

Bartholomae, Christian. 1904. Altiranisches Worterbuch. Strassburg: Trübner.

Cantera, Alberto. 2013. "Talking with God: The Zoroastrian ham.pariti or intercalation ceremonies". Journal Asiatique 301:85–138.

Hoffmann, Karl. 1976. Aufsätze zur Indoinsnistik. Vol. 2. Wiesbaden: Reichert.

Kellens, Jean. 1995. « L'âme entre le cadavre et le paradis ». Journal Asiatique 283:19-56.

- . 2010. Etudes avestiques et mazdéennes. Vol. 3. Paris: de Boccard.
- 2012. « Contre l'idée platonicienne d'Avesta ou les Considérations revisitées ». Dans The Trausmission of the Avesta, sous la dir. d'Alberto Cantera, 49–58. Wiesbaden: Harrassowitz.

Kotwal, Firoze M. et Philip G. Kreyenbroek. 1992–2009. The H\u00e4rbedestan and N\u00e4rangest\u00e4n. Paris: Peeters.

Kreyenbroek, Philip G. 2008. « The term Bagan Yasn and the function of Yasts in the

^{*}Une description précise par Andrea Piras (2000:98-102).

[&]quot;Ce refiet a mayoré l'Anterprétanon globalement haomaque de Karl Hoffmann (1996-681-2) dans son article ne l'Optanti Péciérail. Il semble que « firm flamber » le haoma (nex. senzinis) sygnifie le lassere pur, seion l'opposition védaque entre le sooms siné et le sooms dédignéms « mélé de lat « (Celinis 1995-37-4) homassuss" est traccessible à toute analyse et le rapport entre le haoma et les jonchées végétales rèest traité mille part auliteur dans l'Avenc. De coute manière, il n'y a sucuré védence oui l'à l'asses et din haoma.

Zoroastrian ritual ». Dans One for the Earth: Prof. Dr. Y. Mahyar Nawabi Memorial Volume, sous la dir. de Muhammad Jaafari-Dehaghi, 81–94. Tehran: Encyclopaedia of Islamic Studies.

Piras, Andrea. 2000. Hādōxt Nask 2. Il racconto zoroastriano della sorte dell' anima. Rome: Istituto italiano per l'Africa e l'Oriente.

Redard, Céline et Jean Kellens. 2013. Etudes avestiques et mazdéennes. Vol. 5. Paris: de Boccard.

Hittite dapi-'all, whole, each'

SARA KIMBALI

Hittite dapi- and dapiant- have been described as "synonyms," "near synonyms," or "quasi-synonyms" of bimment- 'all, whole, each!.' Indeed, in some instances dapi- adpiants-in one copy of a text corresponds to phimmen in another copy, a situation that does suggest quite close synonymy. There has been little discussion of why the copies might differ in such instances, however, beyond the occasional observation that dapi- and dapiants- seem more recent than bimmans- i Dapi(ants)- first shows up in texts from the reign of Mursilis II both in Noo-Hittite originals and in duplicates or revisions of Neo-Hittite or earlier exemplars. The evidence suggests that it is from collouisal language.

Many of the Neo-Hittite originals in which dap(ant)- occurs are the kinds of texts, including oracle reports, letters, cult inventories, and depositions, that were not normally extensively copied or revised. One genre of NH original texts in which dapi(ant)- shows up are reports of KIN (lot) oracles where it often modifies ZI (ithansa-) 'soul, will,' for example:

KUB 5.1+ ii 72

2-ŠU LÚKÚR-za MĚ dapin-a ZI-an ME-al n-al Lúari SUM-za SIG.

"Third: The enemy took for himself battle and the whole soul. They are given to the friend, Favorable."

KLIB 6.3 i 16-7

...INA UD.2.KAM LUGAL-uš-za ZAG-tar (17) TI-tar pangurr-a ME-aš nukan DINGIR¹¹⁴-ns dapī ZI-ni

"On the second day, the king took for himself right, life, and p. To the whole

For example, Tischler 1991-127, Puhvel 1991-380.

[&]quot;Although Josephson (2004-11-2) chinn that dapamer has the special force of 'each and every', daps- and dapinns- seem to be promotyrs. For example, both modely daned 'land, Country' and no paracitud utilitizence in meaning stands out (e.g., dapind KUR-out'in all lands' KUB 3-15 in 1, daptom KUR-out for the land, comer* KUB 15.35 * KBO 2-17 bead'in all lands' KUB 3-15 in 1, daptom KUR-out for land, comer* KUB 15.35 * KBO 2-17 bead'in all lands' KUB 3-15 in 1). Both is modely damamed "gods' (e.g., AMD INGIRI" daptom to all the gods' KUB 3-23 in 15, and the conded to modely damamed "gods' (e.g., AMD INGIRI" daptom to all the gods' KUB 3-3 in 15. The stands are seen describing a faces or opamed by the Sungeol for all gods and humans, one text, KBO 11.45 i.s., suce daps- (daptom IDINGIRI" of Jun and another, KUB 38 94 14, suce dapametic (daptom Calay and IDINGIRI") in the expression "life (of the gods').

³ For example, Hoffner 1972:24, Unal 1996:53, Puhvel 1991:380, and Tischler 1991.127

Dapi(ant)- also occurs (beside hāmant-) in KIN oracle reports in non-formulaic contexts, for example

KUB 5.1 iii 61-2

LU,MES Gasga BIA-ma-an-kan (62) dapiantes GAM UGU RA-anzi

"All the Kaskeans will strike (the town of Tamaliya) up from below."

KUB 18 12 + 22.15 obv. i 4-5

man-ma-imaš DINGIR^{meš uru}KÙ. BABBAR-an URU-an ŠA ^DU ^{uru}Ḥalap ANA ^DUTU^U MUNUS.LUGAL ŠE.,-uwanzi (5) [d]apiaz tak(ja)an malan harteni

"If you gods have jointly approved Ḥattušaš, city of the Storm god of Ḥalap, in all respects for his majesty and the queen to winter in \dots "

According to Beal (2002;76-80) KIN oracles were probably Anatolian inventions. They were hastily written observations not normally edited or recopied (Beckman 1999;084).

Another genre of NH originals in which dapi(ant)- occurs are letters, which were presumably taken down by dictation. dapian in KUB 18.40, a letter from the king to an unknown addressee, seems comparable to himman- in meaning 'everything'.

KUB 18.40 i 6

] dapian iwar LUGAL K[UR Kargamiš . . .

"[Do?] everything as the king of Kargamiš (wants it done?)."

KUB 19.23 is a letter from Tudhaliya IV to his mother, Puduhepa, and the passage with Adapians-concerns a rebellion in Lalanda threatening the Lower Lands. Here Aapian, qualified by the particle -pat, means 'just the whole of Lalanda' as opposed to the rest of the Lower Lands. The text is quite rough; Heinhold-Krahmer, who edited it, remarks that it has a number of erasures (1977;311):

KUB 19.23:17-20

...nu-kan mān KUR ^{URU}Lala|nda|(18) [d]apian-pat lagāri nu-nnai-at GEŠPŪ'uwaš I[NIM] (19) man-ma-kan KUR ^{ULA} ŠAPIJ(TT)-ma lagāri nu-nnaš[a-at] (20) UL manga tļyau]waš

"If just the whole land of Lalanda falls, it will be a matter of fighting for us. But should the Lower Lands fall, there would be nothing at all for us to do."

dapn(ant)- also shows up in cult inventories, which record an effort to catalog provincal cult paraphernalia and practices and institute repair and replacement when necessary.* The process involved collection of data, including inventones of cult paraphernalia, descriptions of statues, and oral and written descriptions of ritual practices at the various locales surveyed. Information was recorded on clay tablets and

reported back to the central administration at Hartuslas, where decisions were made about changes. According to Hazenbos (2003;209–14), some of the extant texts may be reports of completed changes, while others specify planned changes, and still others report a mixture of completed and planned changes. Hazenbos suggests that texts mentioning planned changes may be interim reports on work in progress. As such, they presumably were not edited as extensively as texts intended for long-term storage and consultation. But even texts that seem to describe reforms that had been carried out may not have been final, official drafts; for example, Hazenbos (2003;30) notes that the scribe doodled on one (214). KUB 25.23, one text with daplant-, contains a significant number of scribal errors, missing and partual signs, and numerous erasures, suggesting that it may be a very cough draft:

KUB 25.23 i 19-20

HUR..SAG-iya kuĕi URU DIDLIBIA arahzanda nu-za NINDA KAŠ dapi(an)za (20) udai

"What towns (are) around the mountains, all bring bread (and) beer."

ib. iv (6

nu i ^{nug}huppar KAS tagan dapian lahuwanzi

"They pour one entire h.-vessel onto the ground."

dapi- and dapiant- both occur in KBo 12.3, a text from the reign of Suppiluliuma II. dapia in 1 24 is in a broken context, but a nominative-accusative plural neuter of dapiant- appears in better preserved context beside panku- toward the beginning of the text:

KBo 12.38 i 3-6

- (3) × TA DAMMES-ŠU DUMUMES-ŠU
- (4) ēppun SIG,-uwa dapı(an)da
- (5) IIŠTU KŪ. BABBAR GJUŠKIN pangaučiš-a NAM. RAMIS
- (6) [xx huet]tiyanun

"[PN (the king of Alašiya?)] with his wives, his children, [and his...], all the goods, [with silver, g]old, and all the captured people I [re]moved."

Güterbock (1967:81) considered the rext a Hittre version of Hicroglyphic Luvian inscriptions. Column one, where both forms appear, Güterbock explained as an account of Supplinlumsh's father Tudhaliya's bartle with Alašiya (Cyprus). Panhue, at least to judge from the entries in the Chicago Hittste Dictionary (Hoffner and Guterbock 1997:88-90), though a synonym of pinnama- and dap(nam)-, seems to modify words for groups of people more often than it modifies words for inanimate objects or concepts. Perhaps the scribe felt that panhu- was a natural choice for quantifying groups

^{*}For the dating of these texts see Hazenbos 2003.11-5 and Cammarosano 2012

of people while dapunt- was more appropriate for describing materials. The passage would not appear odd, however, if panku- and dapiant- were replaced by humant-.

dap(am): also occurs in texts in Neo-Hittite script that are duplicates or parallels of other Neo-Hittite texts or of texts that go back to a Middle or Old Hittite exemplar. Such texts encompass a range of genres, including rituals, festivals, and historical and mythological texts. Often, the use of dap(am): in these texts looks like a sporadic, relatively susperiolar moderntastion. For example, one copy of the Rixtal at the Border (CTH 422), a text in Neo-Hittite that goes back to a Middle Hittite exemplar, 'KUB 4-1, uses filmans-throughout,' but its duplicate, KUB 31.146, has daplans-though it is a very small fragment. Both texts are in Neo-Hittite writing:

KUB 4.1 i 19-22

nu kāša ^DZuḥarıyaš DINGIR^{MEŠ}-naš (20) ḥūmandaš arušškezzi (21) nu-šma-šan DINAM arnuškezzi nu-šši DINGIR^{MEŠ} (22) būmanteš DINAM hannatten

KUB 31.146 obv. 3-6

[nu kāša "Zithariyaī] DINGIR ^{aud}-ai daņī (an) taī) (4) [arutīkezzi] nu-īma-šān DINAM (5) [arutīkezzi nu-šī DINGIR ^{aud} daņiantsī DINAM (6) [bannatten...] "Look, Z. keeps pleading before all the gods. He keeps bringing suit before them. Decide the case for him, all (you) gods!"

In two passages from copies of the Apology of Ḥattuśili, ḥūmani- in KUB 1.1+ corresponds to dapiani- in copies. Iŝtar is speaking to Puduḥepa in a dream in both passages:

KUB 1.1+ iv 10-1 (= CTH 81 A)

...nu-wa-za-kan ^{URU}KÙ.BABBAR-ai ḥāmanza (11) IŠIU ŠA ^{LŪ}MUDIKA ne-yari

"... And all Hattuša will be turned to (the side of) your husband."

The duplicate, KUB 1.9 (= CTH 81.H) 17 has da-pi-a[n-za, but the tablet breaks off here.

In the second passage, Ištar boasts that she has turned all of Hatti to Hattušili's side in his fight against Urhi-Tešup:

KUB 1.1 + 26.44 iv 21-3 (= CTH 81.A)

...KUR.KUR.M]¹⁸ URUKÙ.BABBAR-11-ma-wa-k[an] (22) himanda ¹IŠTAR ANA ^MHat[tušii andan (23) nehhun

"I, Ištar, have turned all the lands of Hatti to Hattušili."

The duplicate KUB 1.8 iv 9 (- CTH 81.M) replaces humanda with dapianta:

KUR.KUR MEN Ü.BABBAR-]ti-ma wa dapianta DIŠTAR IŠTU MOIS ŪPA-II-III melhhun

In other places, dapi(ant)- in a copy appears to be part of a more extensive revision. For example, in paragraph 4.6 of the Law Code daptan is found in the late Neo-Hittite copy, KBo 6.5. This paragraph concerns the obligations for performing lazzs incurred by someone holding land through an inheritance:

KBo 6.5 iv 24-6

takku URU-ri' šahhanaš A.ŠA^{BIA} iwa[ru kuiški harzi takku A.ŠA^{BIA} dapian pya[n luzzi karpzi takku A.ŠA^{BIA} 'ze - pa - u - f - eš pi[yanteš luzzi UL' karpzi

"If in a village, someone holds fields of *inhhan* as an inheritance, if the fields have been given entirely, (s)he does *luzze*. If the smaller (part) of the fields(s) have been given (s)he does not (??) perform *luzzei*."

Unfortunately, the Old Hittite copy KBo 6.2 and the post-Old Hittite copy KBo 6.3 are poorly preserved here, and the modifier of A.ŚA^{BLA} lands is broken off in the parts of these texts that discuss someone holding enough land to incur an obligation to perform *luxusi*; but the earlier version does not mention holding the fields in their entirety:

OH KBo 6.2 ii 18-9

takku URU-ri A.ŠA^{BIA}-an iwāru kuiški harzi takku-šše A.ŠA^B^{IA} mebkiš] (39) piyanza luzzi karpiezzi takku-šše A.ŠA^{BIA}-ša[†] te-[e-pu-uš piyanza] (40) luzzi natta karpivezzi

"If in a village someone holds lands as an inheritance share, if the [larger part of] the land has been given to him/her, (s)he shall render the huzzi-services. But if the sm[aller part] of the land [has been given] to him/her, (s)he shall not render the huzzi-services."

The late parallel text, KBo 6.4 iv, contrasts the obligations of those who hold lands in their entirety with those who do not, but it uses hamant-:

KBo 6.4 iv 21-4

takku URU-ri A.ŠÅ^{BLA}-an šaḥḥann-a swaru kusīks ḥarzs (22) takku-šši A.ŠĀ^{BLA}uš ḥūmanza pianza luzzi karpzi (23) takku-šši A.ŠĀ^{BLA}-uš ḥūmanza ŪL pianza teppu-šši (24) piyan luzzs UL karpzs

"If in a village someone holds land and obligation to perform *luzzi-*services as an inheritance share, if the land was given to him in its entirety, he shall render the

^{7.7 -} Ø-

Dative plural bamandai 1 3, 6, 7, 11, 26, 28

luzza-services. If the land was not given to him in its entirety, but only a small portion was given to him, he shall not render the luzza-services."

Muwatalli's prayer to the assembly of gods through the Storm god of Lightning is preserved in two major copies, KUB 6.46 and KUB 6.45, as well as in smaller fragments. Singer (1960-133-42) argues that although both texts were written during the reign of Muwatalli, KUB 6.46 is a rough draft while KUB 6.45 is a corrected and revised version that was proofread and edited by a third scribe. KUB 6.46, Singer notes (121), shows numerous erasures and mistakes in spelling and sign use that suggest it is a copy from distration. Forms of the i-stem dapic occur twice in the prayer, and both texts also use [himant-in various places. An ablative da(ph)as is found in KUB 6.46 in 19,8 the conclusion of an invocation of the gods of various locations that otherwise uses [himant-.]

KUB 6.46 1 16-20

- ... DINGIR.LÜ^{MALE} DINGIR.MUNUS^{MALE} İştimantet HUR.SAÇ^{MALE} (17) [Śd. KUR ^{VR}) ^VHatti İştimantet EN^{MALE} DINGIR^{MALE} EN^{MALE} DUTU ^{UNCT}ÜL-na (18) GAŚAN-7A Ü DINGIR^{MALE} İştimantet Śd. KUR ^{UNC}HATTE DIN^{MALE} LÜ^{NA}SANGA.
 TAS (19) İsteclai Śd. KUR ^{UNC}HATTİ-mu-kan EN-UTTA da (\$1) as (20) katêl memileten (sic)
- "...all the male gods (and) the female gods, all the mountains of the land of Hatti, (my) lords. Divine lords—Sun goddess of Arinna, my lady, and all the gods of the land of Hatti, (my) lords—whose priest I am, who have conferred upon me from (among) all (others), the rulership over Hatti." (or "...in every respect....")

The parallel passage KUB 6.45+ i 15-9 has būmandaz:

... DINGIR.LÜ^{ME} DINGIR.MUNUS^{ME®} İşimantel HUR.SAG^{MEX} (16) ÎD^{MEÎ} ŚA KUR ^{NULUĞI} HATLI İşimantel EN^{MEÎ} DINGIR^{MEX, S}ÎD^{MEXE} EN^{MEXÊ} (17) ^DUTU NUTÜL-NA GAŚAN-TA Ü DINGIR ^{MEÎ} İşimandul ŚA KUR ^{NUK}ÇÜ. BABBAR-ti (18) EN^{MEÎ} LÜSANGA-za İntelal ŚA KUR ^{NUK}HATİİ-mu-han (19) EN-UTTA İşımandaz İşiliğ inemilten

If this passage contained the only example of dapi- in KUB 6.46, the scribe of KUB 6.45's edutorial change might be taken as an indication that he found binnamt more appropriate than dapi-. However, 6.46 iii 39 has nu-mu-ban [DINGIR na.nd. al dla]p|iad unwayannu tilntercede for me with all the gods!" For his part, the senbe of 6.45 retained daptai but shifted it to the end of the clause, perhaps as an emphasic

tag, giving nu-mu-kan DINGIR ^{ned}-ai unayanut dapiai "Intercede for me with the gods, all of them!" in iv 4. Such a shift is paralleled by similar shifts of himann. "The scribe of 6.45's changes suggest that he wanted to improve on 6.46's style, but did not necessarily regard its use of dapiai as inappropriate.

The use of dap(nan)- beside fpmanni- in roughly contemporary copies indicates that we should be careful in analyzing places in Neo-Hittate texts that reflect earlier exemplars in which fpmanni- and dap(nan) are used side by side. It cannot automatically be assumed that the use of dap(nan)- was the result of a scribe's decision to introduce contrast.

One such passage is from KUB 33.118, a fairly small, fragmentary text in Neo-Hittite script. Mr. Wašitta, a pregnant volcano, starts smoking, which attracts the attention of all the neighboring mountains who start questioning her (lines 14-6).¹¹ Here himant-modifies HUR.SAC¹⁰⁶⁵ mountains:

...nu-šši HUR.SAG^{meš} bļū]manteš uw[a]nna (15) [p]aer ^{UUR.SAG}Wāšitta ḤUR. SAG^{meš} būmanteš memišķeuwan dāer

"All the mountains went to see her. All the mountains started speaking to Mt. Wasitta."

Wašitta's reply, however, introduced in lines 19-20, uses dapi-:

... BUN. BAG Wähttaf d[ap] las HUR. SAG MES (20) [EG] IR-pa memikeuwan däis "Mt. Wašitta started speaking to all (of the other) mountains."

Since Wasitta is rather defensive about her predicament, claiming to have been raped by a stranger, it could be that dapied HUR.SAG^{meth} has the marked sense of 'to each and every mountain', perhaps indicating Wasitta's emotional state, and is opposed to the unmarked himant-elsewhere, but this seems unlikely.

KUB 33.18 does not have duplicates, but other texts with duplicates suggest that apparent contrasts may be illusionary. KBo 11.14 is from a Neo-Hittite version of the ritual of Hantitassu with Middle Hittite origins:

KBo 11.14 i 24-5

PUT | U-us-za EZEN-an DÙ-at nu-za dapius DINGIR MES-u[s] | hal-za - a - si
(25) | nu-z | a hūmandan DUMULU.ULU.u-an | hal-za - a - si | 12

"You, the Sun god have organized a banquet. To (this banquet) you have invited all gods, and you have invited all mortals."

[&]quot;See Hoffner 1997 14-6 for restorations and translations

^{*}Sec Singer 1996.32 for the reading

For the translation see Singer 1996;37 with n 126

¹⁰⁰ For example, KBo 5.8 iii 32-3 (Annals of Muráits) ERÍN¹⁰⁴⁵-mac-iii-han ANSU KUR.RA¹⁰⁴⁵ jāman arļva dalbļum 'But I cook away his troops, cavalry, everything," or KBo 32.35 obv 65 (Rimal of Allamuraly) mu Ée-rr £lf.5[18¹⁰⁴⁵-iiiiiah suppalah* Tibo cleans the louse, the innor chambers, the courtyrard, everything.

[&]quot;See van Dongen 2012;38-9 with references for a discussion of this text.

¹³ For the restorations see Unal 1996 18 with nn 18 and 19

According to Unal (1996:14-6), this ritual is preserved in at least five different versions adapted for kings or other sick people. Halzais 'invited' at the end of each line is barely visible, and Unal (1996:18 n. 18) describes his reconstructions as based on context and as "very conjectural." However, both dapius and humandan are clearly visible on the autograph copy of KBo 11.14. This passage is part of an invocation in which the ritual practitioner, addressing the Sun god, describes a festival, or banquet, to which all gods and all humans are invited, though at first, the patient treated in the ritual is excluded. The patient is later let in to the party after the gods have had a discussion about his or her absence, Arguably, dapias DINGIRMS could be read as 'cach and every god' as opposed to humandan DUMU.LÚ.ULU^{LU}-an 'all humanity'. but such a contrast seems forced.

Two parallel texts preserve variants of this passage, but only one, KUB 58.94, is preserved well enough for any conclusions to be drawn. The relevant passages on KUB \$8.94 both use dapiant, suggesting that the scribe who produced this version of the ritual did not understand any intended contrast;

KUB \$8.04 i 8-0

nu-wa-za dapianduš DINGIR MEŠ halzuhh[un] (9) nu-wa-za dapianduš DUMUMEŠ LÚ.ULÙ^{LU} [halzihhun]

(The patient is speaking) "I have invited all gods and I have invited all mortals. 213

The i-stern dapi- is found beside humans- in a passage from KUB 58.101, a substitution ritual prepared in connection with a dream of Tudhaliya III about rituals for the Sun goddess of Earth in Hattušaš:

KUB 58.101 obv. iii2 2-714

...(kuin zašhi)|yaz (3) [(memian memii)]ta (4) [nu-tta k]āša hūmandaz (5) [(arḥa ś)ar]nınkuwên (6) [(wēś G)]IM-an dapiza arḥa (7) [śarn]inkuwên

"(You, Sun goddess of Earth), whose message you have spoken with the dream. look, we have compensated you completely. As we have compensated you completely ... x

This ritual is a Neo-Hittite compilation adapted from earlier materials.15 The passage is part of an address to the Sun goddess of Earth, and after pointing out that restitution has been made completely, it goes on to ask for a guid pro quo, dapiza 'completely' in 11i 6 seems simply to be a repetition of humandaz in iii 4.

The use of dap(ant)- in oracle reports, letters, and cult inventories suggests that by the 13th century it was a synonym of būmant- that was freely used in writing

that recorded relatively speech-like content. Evidence from duplicate or parallel texts where a scribe substituted one for another seems to suggest that they were regarded as stylistic variants. The extended stem dati(vant)- often-though not inevitablybehaves like an adjective rather than a quantifier in that it precedes the noun it modifies, and this difference in word order may have been part of the stylistic variation.

Morphologically, the declension of daps- resembles that of nakki- 'weighty, honored, valuable' in that it has nominal inflection with a suffix that does not ablaut

	dapi-	nakkī-16
nom. sg. c		na-ak-ki-(i)-iš
acc. sg. c.	da-pi-n, da-pi-an	na-ak-ki-in
nomacc. sg. n.	da-pi	na-ak-ki-(i)
gen sg.	da-pi-aš	
dat. sg.	da-pi-i, da-pi	na-ak-ki-ya, na-ak-ki-i
abl. sg.	da-pi-za, da-pi-az	na-ak-ki-ua-az
inst. sg.		na-ak-ki-it
nom. pl. c.		na-ak-kı-i-e-eš
acc. pl. c.	da-pi-uš	na-ak-kı-uš
nomacc. pl. n.	da-pi-ya	na-ak-ki-i
gen. pl.	da-pi-aš	
datloc. pl.	da-pi-aš	na-ak-ki-i-ya-aš

Sturtevant (1914:266) first suggested that dapi- might be from IE *d*eb- with a meaning something like 'weighty', and this seems to be the most likely etymology.17 A related Proto-Anatolian *dobro- is found in Cunciform Luvian tapar- 'rule, govern' and the Hittite royal title tabarna-/labarna-, which was borrowed from Luvian.18 The only cognate from outside of Anatolian is the Germanic adjective *dapra- in OHG dapfar, MLG dapper 'heavy, strong', and ON dapr 'sad'. 19 Primary verbal cognates for the Anatolian and Germanic words have not been preserved, but the etymology is attractive semantically; a parallel within Hittite would be panku-'all, entire, complete, every' beside Skt. babú- 'thick' and Gk. novúc 'id.'.

Germanic *dapra- and Luvian *dobro- point to an Indo-European adjective *d*ob-70- meaning something like 'heavy' or 'possessing gravitas'. At first glance, the istem dapi- looks like it might be in a Caland-system relationship to this adjective.

[&]quot;See also ib. 14, which has nu-za dapian(du) i DINGIR" halza si . . .

⁴ For the restorations, see Taracha 2000:75 and of the parallel text HT 76 (+) Bo 6678 tt 12-5 (ib. 62.)

[&]quot;See Taracha 2000 163-7 on the dating of the whole initial

^{*}For the forms, see Hoffner and Guterbock 1989:264 -8.

¹⁷ See also Kimball 1999 270. Tischler (1991,126-8) is skeptical

¹⁸ See Melchert 1994:230, 231, 252, 253 and Yakubovich 2010:229-32.

[&]quot;See Orel 2003:68 and Pokomy 1959:239. Slavic "dobrii in OCS "dobrii, and "debelii 'fat' in OCS debely are not related (Derksen 2008:110, 97-8), and Toch, A trapets 'big', tour 'high', B tappre 'id' are probably from *dh(e)ub- (Adams 2013,296).

However, the nominal declension of dapi- may suggest that it was not originally an adjective. Widmer (2003) derives nabkir- from a *(H)noki- that arose via hypostass from *(H)nok-h_i, instrumental of an unattested *0-stem *(H)nok-- weight, might, worth: It is possible that dapi- was similarly formed from a *dabi-b_i, instrumental of a *dab-- gravitas, importance'. However, there is no evidence for this o-stem. Alternatively, an original-stem adjective *dab-- with normal adjectival inflection could have been influenced by the inflection of the near synonym *(H)noki-. The lack of plene writing in the attested forms of dapi- except for the dative-locative singular could be the result of chance.

If this exymology is correct, why does dapticant)- first show up in waring only in the 13th century? A conclusion that suggests itself is that the words only came to mean whole, entire, all shortly before the mid-13th century, though this scenario does not explain why they do not show up meaning something like 'weighty' earlier. It is possible that dapt- was a dialect word, and it may be significant that its only cognate in Anatolian is in Luvian, but there is no possitive evidence for Luvian origins. dapticant)-does show up in texts with Luvian or with Luvicisms, but that is not surprising, since it is only found in 13th-century texts. Neither dapt- nor the extended stem ever occurs with the Glossenkeil or with Luvian inflection. A possibility is that dapticant)- may have been somehow colloquial or otherwise marked and avoided in writing until the mid-13th century. To It might be significant that many off the Neo-Hittiet originals in which the words are found provide content that may reflect contemporary spech relatively closely. The fact that they sometimes occur in texts that look comparatively rough because of errors or erasures may also be significant: perhaps it undicates that daps-, dapsian- was first introduced into writing from colloquial speech in drafts.

References

- Adams, Douglas. 2013. A Dictionary of Tocharian B: Revised and Greatly Enlarged. Amsterdam: Rodopi.
- . 2002. "Hittite oracles." In Magic and Divination in the Ancient World, ed. Leda Ciraolo, 57–81. Leiden. Brill.
- Beckman, Gary. 1999. Review of Theo P. van den Hout, The Purty of Kingship: An Edution of CHT 569 and Related Hittite Oracle Inquiries of Tuthaliya IV (Leiden, 1998). Journal of the American Oriental Society 119:684-6.
- Cammarosano, Michelle. 2012. "Hittite cult inventories—Part Two: The dating of the texts and the alleged 'cult reorganization' of Tudhaliya IV." Altorientalische Forschungen 30:1-27.
- Derksen, Rick. 2008. Etymological Dictionary of the Slavie Inherited Lexicon. Leiden: Brill.
- 20 For a discussion of scribal stylistic decisions involving the use of the Glossenkeil, see Yakubovich 2008 466-tol

- Güterbock, Hans G. 1967. "The Hittite conquest of Cyprus reconsidered." Journal of Near Eastern Studies 14:73-81.
- Hazenbos, Joost. 2003. The Organization of the Anatolian Local Cults during the Thirteenth Century B.C.: An Appraisal of the Hittite Cult Inventories. Leiden: Styx.
- Heinhold-Krahmer, Susanne. 1977. Arzawa: Untersuchungen zu seiner Geschichte nach den hethitisischen Ouellen. Heidelberg: Winter.
- Hoffner, Harry A., Jr. 1972. Review of Philo H. J. Houwink Ten Cate, The Records of the Early Hittite Empire (Istanbul, 1970). Journal of Near Eastern Studies 31:29-35.
- 1997. The Laws of the Hittites: A Critical Edition. Lenden: Brill Hoffner, Harry A., Jr., and Hans G. Güterbock. 1989. The Hittite Dictionary of the Oriental Institute of the University of Chicago. Vol. L-N. Chicago: The Oriental Institute of The University of Chicago.
- 1997. The Hittite Dictionary of the Oriental Institute of the University of Chicago.
 Vol. P. Chicago: The Oriental Institute of The University of Chicago.
- Josephson, Folke. 2004. "Semantics and typology of Hirtite -ant." In Indo-European Word Formation: Proceedings of the Conference Held at the University of Copenhagen October 20th-22nd 2000, ed. James Clackson, 91–118. Copenhagen: Museum Tusculanum.
- Kimball, Sara. 1999. Httrite Historical Phonology. Innsbruck: Institut f
 ür Sprachwissenschaft der Universit
 ät Innsbruck.
- Melchert, H. Craig, 1994. Anatolian Historical Phonology. Atlanta: Rodopi.
- Orel, Vladimir. 2003. A Handbook of Germanic Etymology. Leiden: Brill.
- Pokorny, Julius. 1999. Indogermanisches stymologisches Worsterbuch. Vol. 1. Bern: Francke. Pulvel, Jaan. 1991. Hittite Etymological Dictionary. Vol. 3, Words Beginning with H. Berlin: Mouton de Gruvter.
- Singer, Itamar. 1996. Muwatalli's Prayer to the Assembly of Gods Through the Storm-god of Lightning (CTH 381). Atlanta: Scholars Press.
- Sturtevant, Edgar H. 1934. "Adjectival i-stems in Hittite and Indo-European." Language 10:266-73.
- Taracha, Piotr. 2000. Ersetzen und Entsuhnen. Das mittelhethitische Ersatzritual für den Großkonig Tuthalija (CTH *448.4) und verwandte Texte. Leiden: Brill.
- Tischler, Johann. 1991. Hethitisches etymologisches Glossar. Part 3, fascicle 8: T, D/1. Innsbruck: Institüt für Sprachwissenschaft der Universität Innsbruck.
- 1996. The Hittite Ritual of Hansitaliu from the City of Hurma Against Troublesome Years. Ankara: Turkish Historical Society.
- van Dongen, Erik. 2012. "The Hittite 'Song of Going Forth' (CTH 344): A reconsideration of the narrative." Die Wels des Orients 42:23-84.
- Widmer, Paul. 2005. "Der altindische pphi-Typus und hethinsch nabhi: Der indogermanische Instrumental zwischen Syntax und Morphologie." Die Sprache 45:190 208.
- Yakubovich, Ilya S. 2010. Sociolinguistics of the Luvian Language. Leiden: Brill.

The Agent Suffixes as a Window into Vedic Grammar*

PAUL KIPARSKY

I Two agent suffixes

The two Indo-Iranian agent suffixes '-tan- and -tan- can be reconstructed for IE as preacenting "'-tan- and accented "-tan- and -tan- can be reconstructed for IE as preacenting "'-tan- and ablaut, they differ in three other respects: (1) semantically; (2) morphotactically with respect to their constituency in the word, co-occurrence with other affixes, compounding potential, and whether they allow the prefix to be separated from the root; (3) syntactically with respect to whether they have accusative or genitive complements, and adverbal or adjectival modifiers. Here I put forward a unified analysis that explains these systematic differences and relates them intrinsity to each other. I have relied on the Vedic material assembled by Renou, Lühr, and most comprehensively by Tichy. My citations and interpretations of Rigordic exambles adhere to the authoritative new translation to Vanision and Bretcoto (2014).

Everyone agrees that the two agent suffixes differ in meaning, but opinions diverge drastically on what exactly that difference is. (1) is a thumbnail summary of the proposals that I will be reviewing before presenting my own in \$2.1

(1)		'-tar-	-tár-
	Pāņmi	present habitual/generic agency	agency (unrestricted)
	Renou	present/durative agency	punctual agency, function
	Benveniste	actual agency	generic agency
	Hale	event agency	non-event agency
	Lühr	stage-level agency	individual-level agency
	Tichy	habitual/generic agency	potential/situation-bound/ occasional agency

^{*}I am grateful to the editors Dieter Gunkel and Benjamin Fortson for their helpful comments

My conclusion will be that Renou and Tichy were each right about a different part of the meaning of '-ture', and that everyone has been wrong about the meaning of -ture', except for Pāṇini, who got the meanings of both suffixes exactly right. Pāṇini's key insight was that the semantic opposition is privative rather than equipollent: '-ture' denotes habitual/generic agency in ongoing time, while -ture' does not have the contrary meaning but rather denotes agency pure and simple. Since the temporal feature, one of the two meaning components that differentiate '-ture' from -ture', is also a core property of verbs, it furnishes a principled basis for explaining why '-ture' agent noins have verb-like syntax, in that they assign structural accusative case to their objects, and are modified by adverbs rather than by adjectives (§3).

Less attention has been devoted to the equally puzzling morphological and morphotactic differences between the two agent suffixes. My solution (\$4) starts from the observation that '-tor- belongs to a class of derivational suffixes that select only bare unprefixed roots, the so-called Caland suffixes. These suffixes have a range of special morphological and phonological properties due to their intimate bond with the root. I show that the constituent structures of the two types of agent nouns predict the accentual differences between them in prefixed formations. The morphotactic restriction against '-tar- on complex bases, including causarives, intensives, desideratives, denominatives, and prefixed roots is also crucial to understanding the semantics. Being an outer suffix, the all-purpose agent suffix -tair- steps in to fill the gap. Consequently the meaning distinction between the agent nouns is neutralized after complex bases. Neglecting the neutralization between the two suffixes in this context has muddied the waters in previous efforts to pin down the meaning of -tar-. In §5 I go on to show that the different morphological constituency of the two agent suffixes also explains why only '-tar- agents ever allow the preverb to be separated from the root (trnesis), and why only -tár- agents ever occur in nominal compounds.

2 The semantic distinction

Renou (1938:103) claimed that 'star- forms agent nouns with the value of a "general present" tense, and therefore, in virtue of the durative character of the Vedae present, of durative (imperfective) aspect. They are often used like participles to modify the main predicate by specifying its manner of action; also as agent nouns sout court, and to designate occupations and skills (u/plar- vianear', dimetar- 'smelter', datar- 'carpenter', datar- 'archer', shiftar- 'driver', metar- 'archirect', hear- 'rider', skktar- 'impregnator'), as well as four priestly functions (hotar-, platar-, petar-, dimetar-). For Renou he basic distinctive semantic feature of agent nouns in the other suffix-star- is punctual aspect (111); as a secondary property that emerges from this aspectual value, they express a "function" attributed to the agent, resulting either from a single unique act or a repeated act.

For some remarks on Kim 2005 see §2. The comprehensive research survey by Balles (2005) covers a number of other proposals, notably those of Floffmann 1967 and Lazzeroni 1992, which I have no space to discuss here.

Benweinste (1948:11 a7) rejected Renou's idea that the suffixes differ in tense/aspect. Since he gave no arguments we can only guess why; possibly he saw tense and aspect as categories that have no place in the nominal domain. This is now known to be false, and there is meanwhule a growing literature on nominal tense/aspect (Tonhauser 2008). For Benveinste the properties that Renou had considered secondary are false. In his words, ""-sor- denotes "Pauetur d'un acte," while "-sér- denotes "Pagent voué à une fonction," or "voué à un accomplissement, que cet accomplissement ait lieu on non." The intended contrast is between the agent of an actual act, and a generic agent who may or may not have actually done anything. Although his interpretation relies heavily on hand-picked examples, sometimes rather subjectively glossed, it became very influential. It was in essence adopped by Debrunner (1954:670) after he and Wackernagel had wrestled with the problem in an earlier volume of their Altandssche Grammath's (1003-201, 2015): similarly by Seller (1086:68).

Several recent works have given Benveniste's idea a new twist in terms of contemporary lexical semantics. Mark Hale identified it with the distinction between event agent nouns ('-tar-) and non-event agent nouns (-tár-).2 The distinction, introduced by Levin and Rappaport (1088), may be illustrated with the ambiguity of the word receiper. As an event agent noun, it refers to an actual recipient, and inherits the verbal argument structure of receive, as in frequent receiver of distinguished awards. As a nonevent agent noun, it refers to a person or device that is generically supposed to receive something, but possibly has not ever done so. For example, a radio can be called a receiver because it is designed to receive broadcasts, even if it has never actually received one, and a particularly inept wide receiver (in American football) may have dropped all the passes he was supposed to receive. Levin and Rappaport note that non-event agent nouns lose the argument structure of the underlying verb; a frequently used radio is not a *frequent receiver, and it would be peculiar to speak of a *wide receiver of long pages. The analogy between this English dichotomy of agent pouns and the Vedic one is intriguing, but ultimately not helpful. We shall see that Vedic '-tar- and -tár- differ from English -er semantically and syntactically, and that both Vedic suffixes inherit the full range of arguments of the basic verb.

A different update of the Benvenistean distinction, due to Lühr (2002, 2005), equates it with Carlson's (1977) distinction between stage-level and individual-level predicates. According to Lühr, "1-10" agents are stage-level predicates, meaning roughly that they describe a transient property, while "1-10" agents are individual-level predicates, which describe an intrinsic or permanent property.

Tichy's (1995) extensive monograph on the Vedic uses of the two agent suffixes broke with this near-consensus and effectively turned the traditional view on its head Her conclusions carry special weight because she mustered the entire Vedic corpus, including the prose, and formulated systematic generalizations about the uses of the two agent notus. For her it is the preaccenting '-tur- that denotes habitual or generic agency. Its basic function is to predicate a permanent property or ability. In Rigvedic it also predicates 'generalized agency' in sentences expressing universal truths of the type 'the whom Indra favors, does X." In contrast, -tdr- has a "situative function," denoting agency in some particular situation or situations, either potential, actual, or (most frequently) temporally unspecified occasional situations.

For all their differences, these analyses share two critical assumptions about the nature of the semantic opposition between the two agent suffixes. First, the opposition is taken to be equipillens—a distinction between two specific contrastive meanings. This assumption is presupposed by, and built into, the commutation test that Tichy uses as her primary analytic tool. Secondly, each meaning is taken to be constituted by a distinctive semantic feature or set of features, at least one of which is manfissed in all its uses, possibly with specialized sub-meanings either in free variation or in a contextually determined distribution. Were it not for its adherence to these constraints, Tichy's mericulous analysis injets have come very close indeed to the mark.

Pāṇini's grammar takes a very different approach, which I believe is correct. In his analysis, the opposition is pravative—an opposition between a specified meaning and no specified meaning. *Furthermore, the privative opposition is nov-dimensional. Its unmarked member -tair- (Pāṇini's qr.C.) denotes simply an agent. The marked member -tair- (Pāṇini's qr.C.) denotes simply an agent. The marked member -tair- (Pāṇini's qr.V.) has a conjunction of two additional meaning components, both of which are maniferout in all trustes.

The first additional meaning component of "sur-according to Pāṇini, noted by almost all writers on the topic, restricts it to habitual, professional, or expert agents (P. 3.2.135 â was tacchilatadaharmatasidhukharu). As a shorthand term, I will refer to this as the HABITUAL/GENERIC meaning. "sur-(Pāṇim's pRV) shares this meaning with other agent suffixes, enumerated in the rules that follow, which compete with it after particular roots (but do not block it, in virtue of 3.1.99 wtsurupo 'siriyum'). These include _sipus (e.g. cariyusi-'(relendessly) moving', 3.2.159), _akac (wth') (3.2.146), _ama6 (yttC) (3.2.148), _am in desiderative nouns and in bhitspi 'beggar' (3.2.168), and -i- (3.2.171), among many others—all semantically equivalent to 'sur-, and so designated by Pāṇini by grouping them together under the scope of rules 3.2.132, and _a.1144. Tichy notes that their synonewy is confirmed by excutual pairnages such as

³Apud Watkins 1995 385 n. 5, the same idea in Fortson 2004:111-2, a similar one for Greek in Schubert

[&]quot;The stage-level semantics that faith attributes to "date can perhaps be reconciled with the temporal restruction to ongoing turn encouled by Plaini, which will be a comessione of the analysis offered below. In Kritzer's (1989) influential analysis, single-level proficients are associated with a "Davidonian" symboric ral variable that u constrained by zeries, while individual level producess are not. For far they also differ syntactically, in date the subject of influendual level produces appears in the external argument position (the

Specifier of IP), whereas a stage-level predicate is base-generated in a lower position, from where it may raise. Whether this analysis works for the Vedic case remains to be investigated

^{*}In an unpublished conference talk, Thurneysen (1904) drew attention to Panini's privative characterization of the opposition and maintained that it was correct also for Rigidedic

táturr viró ... śrótā hávam ... "the surpassing hero (-i-) ... hearer ('-tar-) of the singer's call" (RV 6.24.2, Tichy 1995:236).

The second additional meaning component that Pāṇini attributes to '-tan-'is unaccountably ignored in the entire hierature: '-tan-' is temporally specified, -tan-' is not. The rule that introduces '-tan-' (3.2.135 ptp?) comes under the scope of 3.2.123 purtamaine lat, which restricts it to actions performed parlamaine, 'at the current time'.' It shares this present temporal meaning with 27 other suffixes introduced in 3.2.123-27, including the agent suffixes listed in the preceding paragraph, and the present tense suffixes and participles.' Renou (1938:124) does not mention the temporal restriction of Pāṇini's rule, but it perfectly supports his own observation that '-fan- has the temporal value of present tense and functions prominently like a present participle. The numerous scholars who have cited that rule since then in discussions of the agent nouns have repeated this omission.

The accented suffix *ids*, on the other hand (inserted by rule 3.1.13; multprau) does not come under either of these semantic headings. It has neither the temporal restriction nor the restriction to habitual actions that delimit *ids* (ip?V) as well as the abovementioned other inflectional and lgr suffixes. Aside from a special modal use separately recorded by rule 3.3.169 arthe krywgeat as, to which I briefly return in \$4, -tds*- has no additional meanings, only the general meaning of agency by 3.4.67 hastrari kpt. It belongs in a synonymy class with *ids*- (NymL) and with other semantically mondescript agent suffixes introduced by subsequent rules which compere with *ids*- after particular roots, e.g. *inna*- (Lym), *in*- (NimI), -a*- (aC) (3.1.134). Their synonymy is likewise confirmed by textual pairings, e.g. RV 9.97.39 wurdhith virilhanah "the strengthening (*ids*) strengthening (*id

Pāṇin's treatment reveals two important insights about Sanskrit morphology and exploits them to condense his rules. First, suffixes come in synonymy classes. For each meaning there is a general (default) suffix, whose use is delimited by other synonymous suffixes reserved for particular contexts. These sets are grouped together in the grammar under a common semantic heading. The second insight is that most deverbal (kgr) suffixes share a subset of the inflectional tense endings' modal and temporal features. Pāṇini ingeniously captures that relationship by a parallel treatment of these inflectional and derivational suffixes within an integrated morphological subsystem under the headings 3:3.84 bhinte "in the past," 3:2.123 partamatine "in the present," 3:3.3 bhanionsi "in the future," and 3:3.18 bhinte "in a stative."

'As Sharma (1995 435) translates 3 2.135 "Adfix trN occurs after verbal roots to denote a kurry who performs an action at the current time because of his nature, sense of duty, or skill " Similarly Singh 1901:40. To return to the agent nouns: if the opposition between them is in fact privative and involves two features, as Pāṇini's analysis claims, their semantics must be reconsidered. The occurrences of the marked suffix 'tars share an invariant semantic feature bundle: the conjunction of two features that restrict it to agents of habitual/obligatory/accomplished actions in ongoing time. But 'tafs' is not restricted in this way. It is just an all-purpose agent suffix. That is why in the Vedic texts type frequency is more than twice, and token frequency ten times, that of 'tars.

So it is not surprising that efforts to distinguish the two agent suffixes by a simple semantic feature have failed to converge. Does '*tan-denote agency in ongoing time (Renou), agency of an acrual act (Benveniste, Debrunner), or habitual/generic agency (Tichy)? Does *tán-denote agency in punctual aspect and derivatively a function (Benou), just a function (Benveniste), potential or situationally/temporally restricted actual or occasional agency (Tichy), or permanent properties of individuals (Lulhr)? There is some truth to all of these formulations but little common ground between them, and none captures the entire semantic gamut of the suffixes. In their search for a unidamensional equipollent opposition, scholars have seized on different components of the marked agent suffix '-tan-'s meaning bundle, and imposed complementary specific meanings on what is actually the unmarked, generalized agent suffix --tai-', the more accurate of them constituting no more than a list of hererogeneous meanings.

A review of the textual material carefully marshaled in Tichy (1995:249ff.) points to a core meaning for 'star-which fully agrees with Pāṇini's grammar: an agent who currently (warsandae) acts habitually, professionally, or expertly (tacehla-taddharmatasādhukārin).

The current time meaning subsumes a special use of '-tar- found primarily in Rigvedic, in which it denotes a "generalized" agent in sentences that express universal truths (Tichy 1993;226). Typical are main clauses to conditionals of the form "he/anyone who/whom..." with a tensed or subjunctive (not injunctive) verb in the protasis, e.g. ydap...hindii...si tiavoif yday gdanta (RV 8.7.1.5) "whom you impel, he by your help artives/will arrive at cows." These agent nouns can be equally well translated with the present, as Tichy does, or with the future, as Jamison and Brereton do, but they clearly proclaim universal timeless truths. Since these can be expressed in fine clauses by present tense, e.g., ydan yajidan. parishfishr ais it davies yagachait "the sacrifice that you surround, it alone goes among the gods" (RV.1.1.6), they are fully compatible with the present temporal feature of '-tar-. Outside of such permanent truths '-tar- is enever used for agents of future events (Tichy 1992;129).

Very rarely '-tar- denotes agents of past events. The clearest such exceptional case is hántat yo vṛtrism sánitutā vājam "[Indra] who is the smasher of Vṛtra and the winner of the prize" (RV 4-17-8, see Tichy 1995:239, 345). But this verse is a special case in that it details 'the qualities which make Indra worthy of our attention' (Jamison and Brereton 2014;382), of which all the others in the verse are expressed with agent

[&]quot;John and Bhate (104±16) explain the principle by which nutrimine is continued from 1,1,1,12; "Categorical semants errors are continued automatically till they are carefled by a new incompatible copportal intern. The categorical meaning term nutrimine careful the non-patible meaning term blate [Fitter 13:14]." But the meanings of habituality etc. in 1,2,1,1,4 are not incompatible with nutrimines time. If the fore, nutrimines is continued up to ₱ 1,2,1,17," so that the suffuse assigned in this section express present time in addition to habituality. etc.

suffixes denoting variantine "current time" actions: satrikhin- "total smasher" (sc. of obstacles, which are also called prira), didditys: 'daring', and hintar, diama

Kim (2005:10-4ff.) objects to Tichy's argumentation on the grounds that the temporal meaning of a sentence such as SEI 10.6.2.18 yidhainiyimmira goptin's bhimanism whyaiphing goptine bhinziyimaab' as we have been his protectors here, so we will be his protectors here as well' is expressed by the copula, and is therefore irrelevant to the function of *tán*. This criticism appears to be misdirected, since Tichy's interpretation does not require that *tán* express past or future agency, just that it be compatible with it. The essential fact is that sentences with non-present temporal reference (such as the cited one) allow only *tán*, nor '*tán*, which shows that '*tán* expresses agency in current time and *tán* expresses agency with no temporal restrictions, just as Pāṇini's grammar says.

Negated existential sentences never have '-tmr- (Renou 1938:114, Debrunner 1954: 689, Tichy 1995:85, Lühr 2002), even when the agent noun whose existence the sentence denses would appear to satisfy the semantic conditions required for them."

- (2) a. násya vartá ná tarutá mahádhané / nárbhe asti vajrínah (1.40.8cd)

 "There exists no one to obstruct, no one to overcome the one who wields
 the mace, be the stake great or small"
 - ná yásya vartá janúsá nv ásti / ná rádhasa ná ámarītá maghásya (4.20.7ab)
 "For whom by nature there now exists no obstructor and no hunderer of benefit and bounty"
 - c. nákir esām ninditā mártyesu (3.39.42)
 - "There is no one among mortals who scoms them"
 - d. ná marditá vidyate . . . (10.64.2c)
 - "No dispenser of mercy . . . is found"

This can be understood as follows. Being semantically nondescript, *nār can be substituted nārba peritate for the more specified '-tan' in affirmative declaratives, and conversely '-tan' can be substituted for *nār' in negative declaratives. However, doing so would decrease informativity, not only needlessly restricting the scope of such existential assertions and therefore avoided for Gricean pragmatic reasons, but actually defeating their intended hyperbolic rhetorical force, which the poets take pains to bring out by other means as well, typically by enumerations such as nā. ... mahadabanic

nárbhe "be the stake great or small" (2a), ná rådhasa ná...maghásya "neither benefit nor bounty" (2b).

The suffix '-tear- is also avoided in modal contexts, such as general conditionals and wishes for the future:

- (3) a. má vo risat khanitá (RV 10.07.20a)
 - "Let your digger [= whoever digs you up] not suffer harm"
 - b. ninditáro níndyāso bhavantu (RV 5.2.6d)
 - "Let them who scorn become those to be scorned"

Modality is compatible with -star- but not with 'star- because of its restriction to ongoing time. Examples like those in (3) indicate that modal meanings are not only compatible with -tair- agents, but can be specifically conveyed by them. This must therefore be a special use or meaning of -tair-, on top of its generalized unmarked meaning. Indeed, Painin records such a modal meaning for -tair- in his 3,3.169 arthe krivarrat of ar "grundives and -tair- (denote agency) in the meaning of arth-;

Since the current time meaning component of 'star- makes it unsuited to express future action, the periphrastic future was grammaticalized from -tár-, which is compatible with future and modal uses. For the same reason, its attemporal synonym '-taka- (P. 3.1.133) forms agent nouns that head purpose clauses (bhopaho wajutai 'the goes to cat'), and likewise atemporal '-tana- (P. 3.1.134) is apt to have infinitival uses: sti yatha...nd bhopaho thabbdañ chabnuyad grabanaya (\$B 14.5-4.7-9) "when he cannot hear external sounds."

This analysis immediately raises two questions. Does -thir-appear in all agentive senses, or is its use limited to the meanings that are not expressed by the semantically restricted suffix '-tan'-1 In other words, does '-tan'- BLOCK -tah'-1 According to the Aştādhyāyî the general principle that special rules block general rules should apply. Whatever the situation in Paṇini's time, in Rigvedic this blocking is cleatly a very strong rendency, but it is not an absolute constraint. Unrestricted -tah'- is mostly

[&]quot;In (2) and other such cases, the agent noun can be translated naturally with a subjunctive clause (as I(thy does) or with a modal infinitive, e.g. 'no one who could hinder', 'no one to hinder'.

^{*}There are some interpretive intricacies here, however. Rule 3 i 94 cancels blocking for the special suffixes in its scope (which include tpN = '-tar-), making them merely preferred (ni) rather than obligatory (Kiparsky 1979:27-35). But the rule is applicable only to suffixes that are asarija "of different shape." Since tgC and tgN are of the same shape, differing only in their diacritics, 3.1.94 does not apply to them. So blocking should hold and the more specific tyN should pre-empt the more general tyC. In other words, -t4rshould be reserved for agency that is either non-present or non-customary/amateur/inexpert, or both. But this said, it must be acknowledged that principle 3.1 94 does not correspond to classical Sanskrit usage with 100% accuracy anyway. Recognizing this, post Paninian tradition formulates the amendment tacchilikeru va 'tarriparullur mists (Pbh. 67 of Nägeśa's Panbhäsenduśekhara, cf. Vt. 3 on P. 5 2.146), which stipulates that 3.1.94 does not apply to the suffixes with the meanings specified in 3.2.134 that are introduced in 3.2.135-77, which includes the suffix IrN that interests us here. In any case blocking should be obligatory. Possibly Parim normalized a tendential blocking relationship between the two suffixes by including them in the large class of ket suffixes that obey categorical blocking, as he does in some other cases (see Kiparsky 1979,53-4 on "rounding off"). It is also possible that the strict blocking implied by Panini's grammar (and rigorously adhered to in his own usage) really obtained in the language of his time and had arisen from the more flexible Vedic usage through language change. Even though the language described by the Astadhyayi preserves

confined to meanings that the restricted '-tam- does not express, but still the two suftizes sometimes overlap in usage. For example, Indra is called ddita maghdmi "giver of bouncies" in RV 4-17-8 and data infinama "giver of prizzes" in 8-20-3. We would expect the special suffix '-tam- in both cases, but in the latter the general suffix -taf- seems to nerroad- on its semantic territory for no particular reason and with no appreciably different nuance of meaning. Because of this leeway in the use of -taf- we cannot always tell whether a -taf- agent noun is habitual/generic, perhaps denoting a Sonderpist "special god" (Ticky 1995):20. Likit 2005):1970, or just situation-bound.

A second question is whether the restriction to ongoing time is absolute or relative. The grammatical tradition assumes that the suffixes that fall under temporal headings are subject to a kind of sequence of tenses. For example, 3.2.85 harung nijuh assigns the agent suffix in: (Ninal) to yay in composition with an instrumental. This rule comes under the heading 3.2.84 habit "with reference to past time." An agnitizomagilin is therefore someone who has performed the agnitizoma—not someone who is, will be, or might be performing it. Grammatical doctrine considers the temporal denotation of the suffix to be relative to an implicit reference time, which at the time of utterance may lie in past or in the future. So agnitizomagily any puture bhavita! "his son will be someone who has performed the agnitizoma" can be said of a newborn son, or even one as yet unconceived. Do our agent suffixes behave this way! Could Indra's mother, nursing her divine baby, have used the current-time -tg/N to declare: yptring hintai bhavitait "his will be the slaver of Vrrare"?

For Vedic, anyway, the answer appears to be negative. In reference to past and future events, the suffix '-tan- is systematically avoided (Tichy 1993:126 ff.). In those contexts, the suffix -tan- is used instead, as in AV\$ 5.8-4.1 Nisanthia makinus goptains alkannam 'they made the two spring months protectors," RV 7.8.3cd hadd hinnerma.../ rapid
nanthin "when will we become... winners of wealth?", \$B 6.2.18 goptain bharajainma
'we shall be protectors." This shows that the time reference of '-tan- is current in relation to the time of the utterance, rather than to the time that the utterance refers to.

Here is another difference between Pāṇinian grammar (on one interpretation at least)
and Vedic usage.

3 Connecting semantics and syntax

Agent nouns in '-tan- are syntactically verb-like in that they assign structural accusative case to their objects, can take adverbal modifiers, such as adverbs of time and manner, and directional locative complements, e.g. icharta vibratam pánah (RV 8.1.12d) "one who makes what has gone awyr right again" (Tichy 1993;31).

It is far from obvious how the verbal syntax of '-tar- relates to its semantics. Indeed,

the main Vedic features of the two agent suffixes, including their accentual and morphotactic idiosyncrasies,

'star- was fast disappearing in the actual texts of the time, the older Upanisads (Renou 1918).

Debrunner (1954:683) declared it paradoxical that the syntactically verb-like '-tar- is the "more nominal (substantival)" of the two suffixes from the semantic point of view, while the syntactically nounlike -tár- is semantically "more participial."

Kim (2005) attemps a semantic explanation for the two case assignment patterns. He states that the genitive object of -tár- has a concept-forming function (then taw Begriffibildamy, 130). The accusative object of 'tar-, on the other hand, gives "more precise information" and completes the verb's meaning holistically (ganabeitilde, 131, 133). 'tar- needs a genitive complement because it is characterized by "perfectivity" and by Betgenstanflung "typing." These features of '-tar- agents are in turn connected with their "individuality," "genericity," "high extensionality," and "indicativity (divisible)" (145). I am skeptical of the utility of Begriffibildang and Betgenstanflung for explaining the syntax, for two reasons. First, since accusative case on objects of exclusive ease on objects of any agents has a semantic function, it is not likely that accusative case on objects of any agents has a semantic function. Secondly, it is not clear how these semantic categories can be responsible for the other verb-like properties of -tár- agents, that they allow adverbial modification and directional locative complements.

Kim's claim that agent nouns in -tdr- are non-referential (144), as opposed to agent nouns in '-tar-, which have an identifiable referent and are definite (145), is more lucid. but false at least on a standard understanding of referentiality and definiteness. The two agent-noun types do not differ in these respects. Agent nouns in '-tar- can very well be non-referential, and indeed usually are non-referential in their most typical use as predicates. For example, in RV 5.87.6c the poet uses the '-tar-agent sthátárah as an epithet in order to attribute to the Maruts a property ("you are charioteers"), not to identify them as particular individuals ("you are the charioteers"). To be sure, agent nouns are often predicated of specific individuals, such as the Maruts in this example, but of course that does not make the predicates themselves referential, any more than adjectives predicated of specific individuals are thereby referential. Besides, agent nouns can just as well be predicated generically of non-referential subjects, as in the type yam agne pytsú mártyam / . . . / sá yántā śáśvatír íśah (RV. 1,27.7) "The mortal whom you will help in battles, O Agni ... he will hold fast to unfailing refreshments," Here the agent noun yantar- is not meant to apply to any specific person, but to whatever person Agni helps. As for definiteness, '-tar- agents are indefinite in many common uses, for example in comparisons with in and na, such as detera "like an archer" (4.31.13b etc.) not "like the archer," yateva "like a driver" (1.70.11c etc.), sekteva "like a pourer" (3.32.15b), dấtā ná "like a mower" (5.7.7b), suyámo ná vódha "like a draft-horse easy to control" (9.96.15d), vápteva "like a barber" (10.42.4d). Indefinite

^{*}As a Vedic speaker she wouldn't have used the second future bhanañ.

[&]quot;Bengemenhaftung, literally 'propertulication', is not simply 'qualification' or 'attribution' It has a richer and somewhat hard-to-grasp meaning, defined by Kim (121) as *Tiputerung*: Typing', the attribution of a property "propertuated" from the past to the "bearcr of the eventuality" (Sadverinditingur—the agent, in this case) as an "ideal representante" of this property

designations of groups of indeterminate size and unknown membership can certainly be expressed by '-tar- agents, c.g. distribith' "with archers" (1.8.4a). In short, '-tar- agent nouns do not necessarily have identifiable referents, nor are they necessarily definite

Our analysts provides a feature that makes '-tam- agents capable of assigning structural case to their objects and of having adverbial modifiers. It is the tense/aspect feature that they share with finite verbs and participles, which are actually made from tense/aspect verb stems. Infinitives are built on the root; in so far as they assign direct case to their complements, which in Vedic they often do not ("attraction"), the infinitive suffixes must have some verbal feature that licenses case assignment. Besides nours in '-fam- a number of other derived agent nouns sometimes assign accusative case to their objects in Vedic. All of them have ongoing time reference. The most common of them are placed in Pāṇtni's grammar after the heading 3-2.123 partamāne (Jap) "in the present," "in ongoing time."

- (4) a. -i- after reduplicated stems (Ki, KiN, P. 3.2.171). E.g. RV 9.61.20a jághnir vytrám "killer of Vṛṭra" (Debrunner 1954:293).
 - b. -(i)mu- (P. 3.2.136). E.g. RV 1.63.3a dhṛṣṇɨr etān "bold against them" (Kim 2005:134).
 - 48- after desideratives (P. 2.168). E.g. AV 12.1.48 nidhanám titiksúh "enduring poverty" (?) (Debrunner 1954:469).
 - d. -Ø- (KvIP, P. 2.177-8). E.g. RV 1.1.4ab yám yajňám .../...paribhár ási "the sacrifice that you embrace."

The agentive -i- that appears after non-reduplicated roots usually forms synthetic compounds (sec (rog)), the rare uses after prefixed roots tend to have accusaive objects, e.g. RV 4-a.o.1 durwingly pranying "overcoming battlers." This use is not covered in Pāṇini's grammar, but since it is historically identical with -@ on set roots ((44) RoJP), it is not surprising that it has the same meaning and accusative case-assigning potential. Kim (2005;18) also cites instances of accusative objects with a few other suffixes: -a- (aC) (P. 3.1.134, 3 examples, e.g. RV 8.33.5 ākarāb sabārā "who distributes thousands"), -in- (Ninf) (P. 3.1.134, 1×), -sm- (x×), and deaderative -u- (P. 3.2.163, 1×). In each case the textual context of the examples indicates ongoing time, though only the last falls under P. 3.2.123. Nouns derived with clearly tenseless suffixes, whether they are bare-root (-a-, rnd - (4a-), -md-, -me-, ctc.), or outer suffixes never assign object case. These utilises are assigned by the rules in the first part of the key section up to the first tense heading 3.2.4 bbite (in practice from 3.1.13) to 3.1.150, where the upapada suffixes begin), and under the heading 3.3.18 bbite "denoting a state."

In addition, nominals in comparative '-iyus- and superlative '-isthu- assign accusative case to their objects. These gradated formations are paradigmatically related to (and on some analyses morphologically derived from) agent nouns in -tár- and other bar-root suffixes. In this capacity they inherit the syntax of these agent nouns by one of the mechanisms discussed in \$4 below.

Untensed deverbal nouns are grammaticalized to form infinitives and periphrasuc titures and perfects. Nouns with tensed suffixes are not suitable for this use because their tense features (present, past, and future) are not compatible with the tense or mood features of the target constructions." So only tenseless suffixes are grammaticalized as webla forms: the second future-as (from -str-), infinitival-ana. -aska as complements of motion verbs, gerundives sanctioned by 2-3.69 na lobitysysunstinidalartha-trindin, and the periphrasuc perfect with -dr-. Once grammaticalized as verbal forms, they naturally assign object case and allow adverbal modification like any other verb.

4 Morphotactics and morphophonology

The usage of the two agent suffixes is not constrained only by meaning. Morphological constraints also play a role. The suffix '-tar- is one of a class of BARE-ROOT SUFFIXES that may be added only to unprefixed and unsuffixed roots. For example, the four priestly functions botan-, potan-, notar-, idenstar- are designated with '-tar-, whereas undgatar-, upavaktar-, protoctar-, risastar-, samitár-, pavatar- are formed with -tar-, idensiar-, idensiar-, pavatar- are formed with -tar-, idensiar-, idensiar-, idensiar-, idensiar-, idensiar-, idensiar-, idensiar-, idensiar-, idensiar-, idensiar-, pavatar- are formed with -tar-, idensiar-,

Attempts to make a semantic distinction between the two sets of terms (Benveniste 1948:16, Tichy 1995;286) are unconvincing because they lack support in ritual practices. But there is the obvious formal difference that bôtar-, polar-, nótar-, hintar-are made from simple roots, whereas the others are made from complex bases, ud-patidr-, upa-waketar-, pra-statur-, vs--statur-, have prefixed roots, and samitar-, pastidr- are from the causatives shamiyati, paviyati (pānýyati), at least synchronically. For samitar-Pāṇmī's rule 6-4,54 samitā synthe shows that samitar- is indeed a decausative agent noun from his native-speaker perspective (with deletion of the causative suffix NiC by 6-4,51 ner antij). And it is natural to suppose that if pôtar- is from pundat, then paritár- is from paushat.

Reing officiating priests whose functions are regulated in the fautastitras, these are certainly habitual, professional, or skilled agents, and by rule 3.2.135 should preferably be denoted with '-tar-. But an iron-clad restriction of Sanskrit morphology dictates that the suffix '-tar- selects for a bare root. It must follow the verbal root

[&]quot;Two Sankert infinitive endings, "dispit and the rare-rate, can be added to present stems as well as to roots. Whether this distribution is sinonative or original is dispited (García Ramón 1997, Keydana 2003) 3ff. Fortson 2013. In any case, the tense/aspect suffix does not appear to contribute a semante tense feature to those infinitives as Vedac, for the infinitives built on the geseent stem function like the ones built directly on

¹¹Käryäyana (Vt. 1 on 3.2.135 reprulhür tribsu cănupasaryasya) notices this contrast and correctly identifies the constraint against prefixed bases.

[&]quot;The regular form for Panini (6.4.52ff.) is TS parayetár-, which retains the causative suffix

directly, without any other intervening suffix, and it is never made from prefixed bases. Agents of causative verbs and prefixed verbs are therefore invariably made with tare, c.g. colayutar impeller. Since the is just an agent suffix with no additional semantic or morphological restrictions, it can step into the breach whenever '-tare is unavailable for any reason.

Tichy (1991:204ff.) lists agent nouns predicated of divinities, persons, and animals in Vedic prose that are formed with 14th but on the face of it appear to involve habitual or generic agency, rather than agency in some particular situation. It turns out that the overwhelming majority of these nouns are from bases that are either causative, ¹⁹ prefixed, or both:

- (5) a. arpayitár- 'achiever', kalpayitár- 'fixer', svadayitár- 'sweetener', majjayıtár-'sinker', ápavitár- 'procurer'
 - b. pradátás-'providez', visetás-'one who leads apart', abbinetás-'one who leads towards', aparoddhás-'expeller', prasaviás-'impeller', präviás-'furtherer', ativabás-'one who leads unto', abbivedhás-'one who leads out of', anubharás-'transferrer', abbivedás-'asperser', anumántas-'one who sets free', apahantás-'one who drives away', abbigantás-'planner', nitedhás-'prohibitor'
 - c. prapyāyayitár- 'sweller', prajanayitár- 'engenderer', avagamayitár- 'one who causes to come to power', vieetayitár- 'differentiator', praj- 'one who causes to recognize', abhygoptár- 'protector'

Tichy's search for semantic reasons for the use of -tab*, such as Somdargotter "special gods" (rightly criticized as implausible by Kim 2005;1nff.) is therefore unneces-say. Since the morphology restricts the specialized agent suffix '-tab* to bare uncompounded roots, the agent nouns in (5) must be formed with -tab*, which is compatible with any kind of agency including the habitual/generic type of agency ordinarily denoted by '-tab*.

Only four of the agent nouns in this group cited by Tichy are formed from simple roots. For three of them, as she points out (a17) the context requires a special modal meaning: SB 2.3.1.1 aftitist* one who is able to (or entitled to) to eat?, JB 2.38 1. 6 hantist* one who is able to (or entitled to) to kill*, TB 1.8.6.2 phitist* one who is supposed to drink*. A modal meaning is also possible, though not contextually guaranteed, for the fourth case, SB 4.1.4.1 hartist* one who does (or is supposed to do!).

These cases instantiate the special modal use of -tife* which Pajnin takes care of in his

Tellingly, the nouns in (s) sometimes explicate agent nouns in **nna-(Tichy 1995; 205), which as noted above are semantically equivalent to '**-far*, and, being outer suffixes, can be freely added to causative bases. This is another clear indication that **-far*-can be used in any meanings that '*-far*- is used in, and must be so used when the base is not a simplex root.

The suffix '-tan- is one of a class of bare-root suffixes that are morphotactically restricted in this way. This class also includes adjectival -ant- (byt-an- 'high', Av. brrzzan-, Lowe 2012), nominalizing -as- (téjas 'sharpness'), adjectival -a- (tityba- 'long'), comparative '-tyas- and superlative '-tytha- (oydr-tyas- 'rushing more, gam-tytha- 'mos willing to go'), stative -(tyman- (pre-mán- 'affection'), adjectival -rd- (-ld-) (4g-rd- 'mighty'), nominalizing -md- (ruk-md- 'ornament', kā-md- 'scorched'), and -as- (trân-as- 'fam-as- 'fam-as-).

Since all these suffixes must directly follow the root, they can newer co-occur. This mutual incompatibility drives the so-called CALAND SYSTEM—to which exactly this class of suffixes belongs, and which they indeed constitute. For example, since suffixed adjectives like tig-med-'sharp' cannot receive either the bare-root gradation suffixes 'spar- and '-strhae- or the nominalizer-ser, their gradation and -ser-nominalization must be built directly on the root: tig-pue-'sharper', tig-infus-'very sharp, sharper', tig-in-'sharpers', drigh-i-puam-'length'. In the same way, agent nouns in '-tan- are supplied by bare roots in gradation and nominalization, e.g. dd-tan-' giver', dd-stha- (day-infus) 'givingest', da-mán-' givingness, gencrosity', dannas-' (SB) 'forthcoming', damnistha- 'most forthcoming'.

Depending on one's approach to morphology, the Caland system can be thought of as a network of suffix correspondences, or as a process of stem truncation. The former type of analysis prevails in modern Indo-Europeanist work. It is typically couched in terms of suffix alternations within an item-and-arrangement morphological framework (Rau 2009), but it can also be understood derivationally in terms of the necessarily murtually exclusive distribution of bare-root suffixes:

- (6) a. gam → gam-'tar- → gántar- → á-gántar- BAP ágantar- 'forthcoming'
 - b. gam → gam-'iṣṭha- → gámiṣṭha- → ā-gámiṣṭha- BAP ágamiṣṭha- 'the most forthcoming'

This style of analysis faces the problem of explaining how combinations of -tyarand styles with bare roots can have agentive and other meanings on top of their basic gradation meaning. One possibility is to posit two distinct meanings for them, one being plain gradation and the other a portmanteau of gradation plus agentivity.

abovementioned rule arhe kytyatyras ca 'gerundives and t dr- [denote agency] in the meaning of arh'. ¹⁶

[&]quot;The other derivation, compounding prepositions with "ran-agents, was not available for "sid-gatary," "npa-sektor, and "pra-sistars because the nouns galary, sideture, sitems are not used in Vedic, "si-dauar would have been possible since there is AV sidetur, so perhaps so-daudir-was built on the pattern of the others

One third of the total, according to Tichy

³⁶The root arb that functions as a gloss in the rule has a range of modal meanings 'to deserve', 'to be entitled to', 'to be allowed to', 'to be obliged to', 'to be able to'.

The truncation approach is found in Pāṇini's grammar. He derives the Caland alternations in comparatives by affixing '-piss- and ' ithis to nominal stems (i.e. treating them as traddhita rather than ker suffixes) and formulating morphophonological rules that delete the final rhyme of the base (in the case of-sur-, the entire suffix) before '-ipiss- and '-subu- (rules 6.4.1)4, ker isteneyasus, 6.4.15; kib). For example, ágamithawould be derived from [á-gam-'tar-'iṣtha-] by truncating the agent suffix. While truncation of morphemes is incompatible with many modern morphological theories, in this case it does have the twin advantages of regularizing the distribution of the gradation suffixes by making all of them strictly denominal at a deeper level of analysis, and of deriving their semantics directly from this source.

Whichever theoretical option we adopt for analyzing the Caland system in the synchronic morphology, it is clear that "-byus- and '-igiths- are paradigmatically related to agent nouns formed with bar-root suffixes including '-tan-. The fact that '-tan- is a bare-root suffix whereas -tan- is a dated at a later stage of the morphological derivation predicts that only bar-root '-tan- should correspond to the bar-root gradation suffixes '-byas- and '-tathus-. This prediction appears to be correct. A few Vedic comparatives and superlatives are cited as gradated forms of -tan- agents by Tichy (1995) but every one of them can be related to other Vedic bar-root agent formations that belong to the Caland system: winipinus (RV) can be from wand-rather than from wanta's (both RV), winitaths- from yanna- (RV), avisiths- from dist- (AV), and oddigths-from colds (RV)."

The morphological bortleneck of bare-root suffixes drives the spread of replacement morphology, such as the gradation suffixes -tanne, -tanne, which are not encumbered by a bare-root restriction, e.g. RV 4-mit-la-tanna-from \$\delta\text{mit-la-tanna-from class of outer suffixes to which accented -the-belongs can be separated from the root by other suffixes, such as the causative, denominative, intensive, and desiderative formatives. They are affixed to the whole verb base (lexeme), including the extended root plus any preverb that the lexeme may have. Accordingly the respective constituents structures of words with '-the- and -the-look like this:

a. Bare-root suffix: [Preverb [Root '-tar-]]
 b. Outer suffix: [[Preverb [Root (Caus) ...]] -tár-]

Three lines of reasoning converge on this conclusion. The first relies on the principle that affixes can morphophonologically affect exactly the stems they are added to, no more and no less. This is a general consequence of cyclic morphophonology (see Kipansky 2010 for evidence that it holds also for Sanskrit). Armed with this principle, we can use word accent to diagnose morphological constituency. We observe that whenever the suffix is of the bare-root type (such as '-tap-), stems of the form Preverb + Root + Suffix are accented on the preverb, regardless of the suffix's own accentuation: bidnairs bringer', prishabstrar- offeree.' An outer suffix, on the other hand, dictates the place of the word accent in prefixed and simple stems alske, depending on whether it is inherently accented and whether it is short and accented, it causes all accents on its base to be deleted, and is accented on the resulting stem: TS pra-dapopitar- one who causes to give', SB unneithalm (gen.ph.) "raiser, pource out' (a type of priest).

Given (7), this accentual difference between bare-root and outer suffixes is a consequence of the cyclic principle. For since bare-root suffixes are immediate sisters of the root (as shown in (7a)), they do not have scope over the preverb. Rather, the "preverb" is composed with the noun derived by attaching the suffix to the root. So it is an immediate constituent of the compound stem, and out of reach of whatever accentual influence the bare-root suffix inside the second member might have. Being the first inherently accented morpheme in the word, it receives the word accent (the icets) by the BAP, occulting the accent of the root + suffix combination. An outer suffix, however, is added to the roor plus any causstate or other secondary suffixes and the preverb, and so all these clements will be in its scope and fall under its accentual sway. If it is dominant, it deletes all stem accents including that of the preverb. Thus the accentual effects of outer suffixes are always overtly manifested. The derivations in (8) and (9) show this.

- (8) Bare-root '-tar-
 - a. [bhar-] → [bhar-'tar] → [bhár-tar] bhártar-
 - b. [bhár-tar] → [prá-[bhár-tar]] BAP [prá-[bhar-tar]] prábhartar-
- (9) Outer -tár-
 - [bhar-] → [ápa-bhar] dpa-bhar- (e.g. inf ápabhartavás)
 - b. [ápa-bhar] \rightarrow [[ápa-bhar]-tár-] $\xrightarrow{\text{Deaccentuation}}$ [[apa-bhar]-tár-] apa-bhar-tár-

The second argument for the constituent structure in this is that preverbs can determine the choice of outer suffixes (or of their allomorphs, from another point of

[&]quot;VS 16.40 ndmo hantré as héniyase as is an interesting case where suffix stressed hannér is paralleled by the comparative of root stressed hántare, another demonstration of the two agent suffixes' meaning compatibility.

¹⁶In this case we have to consider the reduplication as a modification of the root rather than as a separate prefix, its morphological status is not the same as that of the augment and privative a-

view) but not of bare-roor suffixes. For example, the absolutive ending is -ya when the root is compounded with a preverb or adverb, and -na when the root is not so compounded. So -ya cannot be be added until the root has been compounded with a preverb. A similar distribution relates ti- and tu-. Eventive '-a- as in kéta- 'de-sirc', hánsa- 'invocation', kánna- 'desarc' is suppleted by accented -a- in compounds: pnn-keta'- appearance', â-hansa'- roballenge', apn-kund- 'aversion' (Debrunner 194-199). Bare-root suffixes, on the other hand, are never restricted to the presence of a particular preverb. This follows from the constituent structure in \$4., on the assumption that the selection of affixes (and of their allomorphs) is sensitive exactly to the base to which they are added, not its to a smaller piece of it, nor to some larger constituent.

The third argument for the constituent structure is that the combination of a root and an outer suffix sometimes does not occur independently of the preverb; they are synthetic (papada) compounds. Such cases tell in favor of the constituent structure (7b). For example, RV vi-pyk-vans-'separated, unmixed' is made by adding -vans- to vi-pye-'separate', nor by adding vi- to "pyk-vans- (which does not exist). Similarly, a-dhraf-'support' is from the causative ā-dhraf-vans-(a-dhraf-vans-typopers'), not from "dhar-vans-typopers'), which does not occur uncompounded; (a-)vidasyai-'(un-)ceasing' is from vi-das- (vi-dasyai), not from "dhaya-. Examples can be multiplied ad libitum. The opposite case, in which a Preverb -Root combination is systematically restricted to the context of outer suffixes, does not appear to occur.

Bare-root suffixes have exactly the reverse pattern, pointing to the right-branching constituent structure (7a). For example, there is no compound verb such as "*si-pri-d" "*sipristate, it must have been sufficient and supersu

Let us mention as an aside that -tum infinitives and root nouns in -0 shed light on the compositional analysis of the accent system (Kiparsky 2010). These suffixes are just inherently unaccented, but dominant, which is to say that they delete any inherent accent of the stem to which they are added. At the stem level this configuration results in movable accent for monosyilables, and in polysyllables it feeds the Oxytone rule, which assigns default accent to the stem final syllable, yelding such contrasts as instr.ol, bin bith 'worlds' vs. a-bith bith 'twester ones'.

Independent evidence for the unaccented dominant status of -Ø is that it creates inherently unaccented accentually movable monosyllabic root nouns from inherently

accented roots ("Narten roots"), e.g. &u-, instr. &u-d 'command', with accent on the case ending. Unlike -0, -sum is a word-level ending; it rerminates the derivation The Oxytone rule is not applicable at the word level. Rather, the default for finished words is initial stress, as shown most obviously by orthotonic vocatives. Under these assumptions the analysis proposed in Kiparsky 2010 need not be extended in any way to derive this new data, and in particular there is no need to add a category of initial-accention suffice for the sale of the word-unitial accent of sums infinitives.⁹⁰

Outer suffixes, by the abovementioned criteria that they can be attached to prefixed or suffixed roots, or form synthetic compounds, include the following:

- (10) a. Eventive and agentive -Ø. RV ni-vid- 'instruction', pra-yūj- 'acquisition', vrsva-būn- 'Vrtra-killer' (synthetic compound).
 - Agentive '-aka-, -akd-. ŚB cikitsaká- 'physician' (desid. cikitsa-), VS
 gánaka- 'astrologist' (denom. ganayati 'calculates'), MU tāraka- 'carrving over' (AV caus. tārakyati).
 - c. Agentive '-ana-. ā-mántraṇa- 'calling' (mántraṇa-, denom. (ā-)man-tráyate), pra-árpaṇa- 'setting in motion' (árpaṇa-, caus. (prá-)arpaṇati 'sets in motion').
 - d. Eventive 4. AV vi-irt-s-å-'desire to frustrate' (desid. virtsayati 'wants to frustrate', VS upa-sik-s-å- 'desire to learn' (B sik-s-å- 'instruction', desid. upasiksatı).
 - c. Agentive -f: (KI, KiN). Derived from reduplicated stems, with perfect-type reduplication (Pāṇini 3.a.171, Debrunner 1534-1293, KIII 2005110) and semantic connections also to the intensive (Debrunner, 201): RV sam-dadi: 'comprising', vi-sāashi-'overwhelming', si-jaghni-'knocking out.' In simplexes the inherently accented reduplication normally supersedes the suffixal accent, e.g. jághni-'killer'.
 - f. Agentive -(i)snu- (3.2.136). E.g. dhṛṣṇur etān (Kim 2005:134).
 - g. Agentive '-i-. Reanalyzed from -Ø on set roots: RV vāja-sáni- (synthetic compound), ā-táni- 'penetrating'.
 - h. Agentive iṣṇɨ-, -iṣṇɨ-, RV stan-ay-iṣnɨ- 'thundering' (standyati 'thunders'), tāp-ay-iṣṇɨ- 'tormenting' (AV tāpāyati 'torments'), ŚB pra-jan-iṣṇɨ- 'procreating' (pra-jā- 'progeny', prā-janayati 'procreates').
 - Agentive '-uka. MS vy-árdhuka- 'deprived', TS ud-bándhuka- 'one who hangs (himself)'.

[&]quot;In terms of this framework, both agent suffices are dominatin, meaning that they delete any accent of their boses and impose their own accentual requirements on them. shr is really an unaccented dominant suffix, so in forms unaccented stems, which receive default cayrone accent and perudo-mobile infliction. c_{μ} , $barre^2$, $barre^2$, $barre^2$, $barre^2$, $barre^2$, $barre^2$, $barre^2$, barre,

- Agentive -tár-. RV cod-ay-i-tr-f- 'impeller' (codáyati 'impels'), TS pradap-ay-i-tár- 'bestowcr' (prá-dāpayati 'bestows'), ni-dhā-tár 'one who sets down' (dhātár- 'one who sets', ní-dadhāti 'sets down').
- k. Agentive '-1948**, fem. -1948**-1. vi-bhd-1948**-1. brilliant' (vi-bhiti) 'shines forth'), pm-44-1948*-1. bring offspring' (pm-44-1948) 'procreates', nis-sidh-1948*-1. 'grantung'. According to Debrunner (1954-899) these are extensions of synomymous root nouns ni-bhd-1948*-1. sis-sidh-1948*-1.
- Gerundive 'ya- car-kir-ya- 'to be praised' (intens. carbarri), 10.116.5a birrásya- 'to be caused to collapse' (caus. birrásigyati 'causes to collapse'), TS sam-stháp-ya- 'to be set up' (caus. sam-sthápáyuti 'sets up').
- m. Eventive/agent noun '-ya-, fem. -yā-. AV upa-hav-yā- 'injury' (úpa-hanti 'hts'). 20
- n. Eventive/agent noun'-Ø-(root compounds, Pāṇini's suffix KvIp, (4d)). pra-ne-nf-'constant leader' (intens. ne-nf-yd-te), vi-bhd-'brilliant', pra-sd-'bcanng offspring'.

Some bare-root (Caland) suffixes function as outer suffixes as well:

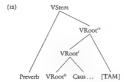
- (11) a. Agentive/instrumental «i- »rawl- 'suitor' (ryawli' c'hooses, woos"), pari-cur-d- 'servant' (pdrr-carrai' attends to"), revijd- 'treembleng' (intens. »veijndate' 'trembleng'), a-ladariiral- 'crushing' (intens. a-ladariari' crushes'), a-ladariiral- 'susport' (caus. s-labariivate' supports'; the causative suffix is deleted but its presence in the derivation is betrayed by the vyddhaed root), abbi-rovaidd- 'causing teats' (intens. rovaidd-), present stem RV (a-judatajd- '(un-)-ceasing', from vi-dus- (vi-duayusi' expiree'. Infinitival uses: RV upa-stabayum' standing near', from upa-shot- (unastitustis' stands near').
 - Agentive -in-. mi-tod-in- 'piercing' (nt-tudati, nt-tundate 'pierces'), niy-ay-tn- 'going to' (ny-in' 'goes to'), npamantrin- 'reciter' (denom. (άρα)mantrupate 'recites'), KŚS śrāp-in- 'cooking' (caus. AV śrap-ay-a-ti 'cooks').
 - c. Agentive -ú- (paradigmatically paired with -ú-, (4c)). abhi-dipú- 'wanting to hur' (desid. abhi-dipe-) iritigú- 'wanting to hur' (desid. rérikati), -u-ryzayú- 'rutting' (denom. ryzayúti), rzhyú- 'righteous' (rzhyúte 'is righteous'). bhitavú- (caus. bhitáwati).

5 Tmesis and compounding

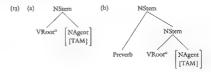
Agents formed with the bare-root suffix '-tar- allow occasional tmesis, as in RV 9.86.6d sáttā ní yónā (- nísattā yónā) kalásesu sídati "seated in his womb, he [Soma] sits down

in his tubs," 9,97,38a úpa súre ná dháta – súre nópadhátá "like the Placer of the Sun." And they never occur in nominal compounds at all, while -tár- agents occasionally do, and in rather archaic-looking ones at that: RV 1.174.10b nr-pā-tá, 7,74.6b nr-pā-tár- hý protector(s) of men', man-dha-tár- (PN) 'thoughtful', ltt. 'mind-setter' (1.112.13b, 8.39.8d, 8.40.12b, 10.2.2b).

The constituent structure that we motivated on accentual and morphological grounds in (7) provides a rationale for these restrictions. In finite verbs, the fact that Tense/Aspect/Mood (TAM) morphology is invariant for each root regardless of the presence of a preverb tells us (on the abovementione d assumption about the domain of allomorphy) that it is suffixed to an extended root projection, forming a constituent (here labeled somewhat arbitrarily as VRoot") to which the preverb is then added:

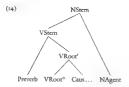


As discussed at (7), (8), and (9), inner agent suffixes are added directly to the root to form a noun stem, which can then be composed with a "preverb." In this way (13b) is derived from (13a).



Outer suffixes, including the agent suffix tár, are added to the entire verb stem to form a noun stem.

²⁰Not a clear case. Might really be a bare-root formative because it rarely appears compounded with preverbs (but very often with nominals), and there are no recorded derivatives from extended roots.



It will be seen that the preverb is an immediate constituent of the stem in (12) and in (13b) but not in (14). Given the natural assumption that trnesis splits a word into its immediate constituents, if follows that trnesis can occur only in finite verbs and in nominals with bare-root suffixes such as '4-ner, never in nominals with outer suffixes such as '46r.

Finally, the compounds mrp4s-tin-'protector of men' and man-dibs-tin-'PN, lit.
'mind-setter', are synthetic compounds. We know from morphological and accentual
evidence that synthetic compounds are formed by adding the compound suffix to
the Noun and the Root together.²¹ The constituent structure of these compounds is
therefore simply this:



But bare-root suffixes are not eligible for insertion in this structure. Synthene compounds are only formed with outer suffixes, as can be verified from their accentuation, see (10a.g.). So the bare-root agent suffix 'ran- cannot form synthetic compounds. Only -ran- is available in the structure (1s), which underlies synthetic compounds. These formations are, however, rare because they are normally blocked by a special set of suffixes deducated to the formation of synthetic compounds.

6 Conclusion

Meaning and morphotactics fit together scamlessly to explain the properties of the Sanskrit agent nouns. The systematic differences between '-tar- and -tar- in case as-

³³ Morphological evidence shows that in synthetic compounds neither Noun+Root nor Root+Suffix are constituents, and accentual evidence shows that the suffix determines the accentuation of the entire compound, which by the reasoning of §4 entails that they are sisters of it in the morphological constituent structure of the word; see Kuparsky 2010/172-6 for a fuller development of this point.

signment, adverbial vs. adjectival modification, morphological distribution, parallelism with other agent suffixes, preverb accentuation, tmesis, and compounding are all explained by the fact that '-tar- is a tensed bare-root suffix and -tar- is unrestricted.

References

- Balles, Irene. 2005. "Indogermanische Nomina agentis: Probleme und L\u00f3sungsans\u00e4tze." In Balles and Luhr 2005, 7-70.
- Balles, Irene, and Rosemarie Lühr (eds.). 2005. Indogermanische Nomina agentis. Leipzig: Institut für Linguistik, Universität Leipzig.
- Benveniste, Emile. 1948. Noms d'agent et noms d'action en indo-européen. Paris: Adrien-Maisonneuve.
- Carlson, Gregory. 1977. "Reference to kinds in English." Ph.D. diss., University of Massachusetts, Amherst.
- Debrunner, Albert. 1954. Altindusche Grammatik. Vol. 2, part 2, Die Nominalsuffixe. Göttingen: Vandenhoeck & Ruprecht.
- Debrunner, Albert, and Jacob Wackernagel. 1930. Altendische Grammatik. Vol. 3, Nominalfiexion – Zahlwort – Pronomen. Görtingen: Vandenhoeck & Ruprecht.
- Fortson, Benjamin W. IV. 2004. Indo-European Language and Culture. Oxford: Blackwell.
- . 2012. "Latin -rier and its Indo-Iranian congeners." Indogermanische Forschungen 117:75-118.
- García Ramón, José Luis. 1997. "Infinitive im Indogermanischen? Zur Typologie der Infinitivbildungen und zu ihrer Entwicklung in den älteren indogermanischen Sprachen." Incontri Linguistica 20:45–69.
- Hoffmann, Karl. 1967. Der Injunktiv im Veda: Eine synchronische Funktionsuntersuchung. Heidelberg: Winter.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigneda: The Earliest Religious Poetry of India. Oxford: Oxford University Press.
- Joshi, S. D., and Saroja Bhate. 1984. Fundamentals of Anuvertii. Pune: University of Poona.
- Keydana, Götz. 2003. "Infinitive im Rgveda." Habilitation, University of Göttingen. Available at http://www.keydana.de/download.php
- Kim, Jeong-Soo. 2005. "Die Nomina agentis auf -tar- im Vedischen." In Balles and Luhr 2005, 71 160.
- Kiparsky, Paul. 1979. Pānmi as a Variationiss. Cambridge: MIT Press / Poona: Poona University Press.
- —. 2010. "Compositional vs. paradigmatic approaches to accent and ablaut." In Proceedings of the 21st Annual UCLA Indo European Conference, ed. Stephanie W. Jamison, H. Craig Melchert, and Brent Vine, 137–81. Bremen: Hempen.
- Kratzer, Angelika. 1995. "Stage-level and individual-level predicates." In The Generic

- Book, ed. Gregory N. Carlson and Francis Jeffry Pelletier, 125-75. Chicago: University of Chicago Press.
- Lazzeroni, Romano. 1993. "L'espressione dell'agente come categoria linguistica: I nomi indoeuropei in -tér- /-tor-." Studi e saggi linguistici 32:233-45.
- Levin, Beth, and Malka Rappaport. 1988. "Non-event -er nominals: A probe into argument structure." Linguistus 26:1067-83.
- Lowe, John J. 2011. "Caland adjectives and participles in Sanskrit and Proto-Indo-European." Paper presented at the 23rd Annual UCLA Indo-European Conference, UCLA.
- Lühr, Rosemarie. 2002. "Konzeptionierungen des Prädikativums in der Indogermania." Zeitschrift für Sprachwissenschaft 21:4–24.
- ----. 2005. "Individuen- und Stadienpradikation im Altindischen." In Balles and Luhr 2005, 161-254.
- Rau, Jeremy. 2009. Indo-European Nominal Morphology: The Decads and the Caland System. Innsbruck: Institut f
 ür Sprachen und Literaturen der Universit
 ät Innsbruck.
- Renou, Louis. 1938. "Le suffixe védique ty- et les origines du futur périphrastique."

 Bulletin de la Société linguistique de Paris 39:103-32.
- Schubert, Paul. 2000. Noms d'agent et invective: Entre phénomène linguistique et interprétation du récit dans les poèmes homériques. Göttingen: Vandenhoeck & Ruprecht.
- Seiler, Hansjakob. 1986. "Zum Zusammenhang von Nomina actionis, Nomina agentis und Eigennamen." In o-o-pe-ro-si: Festschrift für Ernst Risch zum 75. Geburtstag, ed. Annematic Etter, 60–71. Berlin: Mouton.
- Sharma, Rama Nath. 1995. The Astadhyayi of Panini. Vol. 3. New Delhi: Munshiram Manoharial.
- Singh, Jag Dev. 1991. Panim: His Description of Sanskris. New Delhi: Munshiram Mancharlal.
- Thurneysen, Rudolf. 1904. "Über das periphrastische Futurum im Altindischen." In Verhandlungen des 13. Internationalen Orientalisten-Kongrusss, Hamburg, September 1902, 9–10. Leiden: Brill. [Reprinted in Gesammelle Schriften, Vol. 1: Indagermanisches, Italiaches, Romanisches, ed. Patrizia de Bernardo Stempel and Rolf Kodderitzsch, 46–7. Tübungen: Niemeyer, 1991.]
- Tichy, Eva. 1995. Die Nomina agentis auf -tar- im Vedischen. Heidelberg: Winter.
- Tonhauser, Judith. 2008. "Defining cross-linguistic categories: The case of nominal tense (Reply to Nordlinger and Sadler [2008])." Language 84:332–42.
- Watkıns, Calvert. 1995. How to Kıll a Drugon: Aspects of Indo-European Poetics. Oxford: Oxford University Press.

Rigvedic u and Related Forms Elsewhere: A Reassessment Forty Years Later*

IARED S. KLEIN

I Recapitulation

In the past seventeen years the employment of the particle u in the Rigorda, together with related forms elsewhere, has been addressed in two papers (Dunkel 1997, Cart 2013). Because I am responsible for the only full-length treatment of this particle (provisionally, PIE u / u / u / u). I will take the happy opportunity afforded me to honor Seephanie Jamison, whose career-long engagement with the Rigorda has enriched us all, as an occasion to reassess my discussion and analysis of Rigordic u. There is all the more reason to do so in that it has now been forty years since my original treatment of this form (Klein 1974), and a recently completed study of stylistic repetution in the Rigorda (Klein, in preparation) has afforded me a view of this particle from a broader perspective, which I believe can contribute further to our understanding of this difficult word.

In my dissertation and the monograph and article based on it (Klein 1974, 1978a, 1978b.) I subjected u to a complete synchronic analysis and found it to be associated with two basic types of constructions: correferentially anaphoric sequences of the sort yid-... which one... that one' (e.g. VIII.11.2ab yi nub...) pin visya thunshy attin u no a stuge "The one... who has led us forth unto what is better, that one do I prase for you") and whit-... whit-u " that one... that one' (e.g. II.2.5ab is hidth visuam pair bibits addination) I bim u hamyals midmuga ripiate gird "Let that one as Horar surround every worship. Straight unto him do the men go with their oblations, with their song") as well as conjoined structures of the sort 1.139.4a desti dant ny is nakam ripiatabib "(Your chariot) has been perceived, O wondrous ones, and you two open up heaven." Mediating between these two types are large numbers of passages,

[&]quot;Because I have written at length on a and its congeners in Greek and Gothic (Klein 1978a, 1978b, 1988, 1988, Klein and Condon 1993), and this material is widely available, I will here keep repetition of points I have made in the past (including large numbers of cited passages) to a minimum. The best synopsis of my views prior to this armele may be found in Klein 1997.

amounting to just over 30% of its total occurrences in the Rigyeda," in which s is associated with iteration (anaphora in the rhetorical sense), whether of concretely referential pronouns (e.g. IV.8.4ab sá hótā séd u dūtvām / cikitvāň antár īvate "That one is the Hotar; that one alone understanding goes between [heaven and earth] on his embassy") or of words belonging to other parts of speech which are not concretely referential (e.g. VIII.3.20a nír agnáyo rurucur nír u súryah "Out shone the fires, out the sun," I.34.2d trír náktam yāthás trír v asvinā dívā "Thrice do ye drive by night, thrice, O Aśvins, by day," VII.86.8c śám nah kséme śám u vóge no astu "Luck let there be for us in peace, luck in war," II.35.15ab áyansam agne suksitím jánáya / áyansam u magharadbhyah surrhtim "I have extended, O Agni, secure dwelling to the folk, I have extended a hymn to the liberal ones"). In all these instances I have purposely refrained, at this first pass, from assigning a translation to u, because that is one of the things that is at issue. I will apply the same treatment to another set of passages in which iteration does not occur, but where # seems to be associated with anaphora in the linguistic sense (coreference), e.g. VIII.44.6c agnim ile sá u śravat "Agni do I summon. He shall listen."

In all of these cases there are two possible readings of \$w\$: it may be taken as purely associated with the repetition (in the iterative group) or the coreference (in VIII.44.6c) or it may be interpreted as conjunctive. In the latter case, we would amend our translations of all of the passages just circl to include the word 'and' and sasign this value specifically to w. That would mean that \$w\$ in these passages is a coordinate conjunction. But that would create a discontinuity (at least in translational terms) with the value of \$w\$ in the correlative sequence \$\frac{y^2}{2} \cdots \frac{y^2}{2} use of this functional bridge, and because of the fact that u cannot be taken to mean 'and' in the correlative construction, I enriched my synchronic analysis of u with a diachronic dimension. Separating the correlative employment from the iterative anaphoric employment, I took the rype tidm...tidm u, which shows a sequence anaphoric in both the linguistic and rhetorical senses, as a Gelenktelle which led to the subsequent employment of u us a coordinate conjunction, first in sequences of the type tidm...tidm u, which was ambiguous as to correference and conjunction, and then in sequences of the sort diffu ... using u, 2 traß... using u, key they u, key u

sum u, etc., in all of which the sequential forms were anaphoric in the rhetorical but not the linguistic sense. (On the two senses of the term "anaphora" see Klein 1987.3) The occurrence of u in contexts where material reference was no longer a feature of the word which a followed led to the dropping of the anaphoric feature (whether understood linguistically or rhetorically) from the descriptive environment associated with the occurrence of # and its subsequent employment as a simple coordinate conjunction that could follow any domain-initial word in coordinate conjunctive value (cf. I.139.4a cited above). A subsidiary but nevertheless important development, according to my 1974, 1978a, and 1978b scenarios, was the movement of # to initial (cataphoric) position within the "diptych inverse" sá/tá- u ... yá- (e.g. VI.18.1a tám u stuhi yó abhíbhūtyojāh "That one praise, who is of superior strength") based upon the co-occurrence of the types ya-...sa/ta- and sa/ta-...ya- in passages not containing u, with similar expansions of the range of u to cataphoric* and eventually inversely coniunctive value, e.g. VIII.64.6ab vayám u tvā dívā suté / vayám náktam havāmahe "We call thee by day to the pressed (soma) (and) we (call thee) by night," X.32.8a adyld u prânid ámamann imáhā "He has just today breathed. (And) he has tarried (all) these days."5 Furthermore, by a conflation of the types X ... Y u and X u ... Y we find a sequence X u . . . Y u, e.g. X.127.2 nír u svásäram askrta / usásam devy äyatí / ápéd u hasate tamah "The heavenly one coming hither has replaced her sister dawn, and the darkness shall withdraw. **6

In taking my analysis of u from the synchronic to the diachronic plane, I was of course engaging in an act of internal syntactic reconstruction, and I was guided by the translational aspect of the problem. For it seemed to me that a shift from a more abstract, less easily translatable value $(y_0 u) = \frac{1}{u} k(u)^2$ to the more concrete conjunction.

tion: X.102.62 tám evé jemt tám u brahmánam ábuh, l.91.182 sám se páyánsi sám u yantu vájáh, VII.86.8c sám nah kséme sám u yége no astu, II.9.22 t, vám dátás s_evám u nah paraspáh

"Perhaps because it is hidden sway in a fusicabilit, perhaps because rome would find its conclusions brand, in article, nor highest article, long historidapid of the consideration of the considerati

*In the largest sense, meaning that it points ahead to some following structure, whether conjunctively or anaphorically.

This inverted construction is acrually slightly more frequent than the type with n in requence internal pointion (311X: 321X among cases that are primen fann clear). However, it is not always easy to tell whether or not sequence-initial n is meant to be anaphoric within a larger discourse context.

Of the corresponding type X on Y on, which encompasses 371 of the 1020 non-repeated occurrences of the partiel in the Rigiceda (30.4%), the sequence X in Y is involves only 28 of the 476 certain occurrences of the x c of the x of the

'Unless one were to treat this as meaning 'which one... that may one'. This type of meaning, and its proper characterization, will be taken up in §2 below.

The acrua, figure, which includes both identical and polyptotic iteration, is 31.3%, representing 149 of the 476 certain occurrences of si in the Rigweda (leaving out, for the purposes of this paper, 25 appearances of the otherwise to-be-exp-ained si labif- and those instances where the pulsipaths text reads sist in combination with a preceding word and is in one to be metrically restored.)

³I rook this sequence as well as dim .dim u, pidm .d. pidm u, and, at a greater remove, dyamsam u phinum u to be based formulacally on tim ...tim u. Note in particular the metrical equal elence of the following, each of which shows the repeated term located in line-initial and break initial positions.

tive 'and' was more likely than the reverse (the principle of utrum in alternum), the idea being that speakers confronted with a structure of the sort sighti-...shipi- we would be likely to renterpere the discourse-level paracle in the samplest way possible, reading it directly off the surface structure and assigning it a conjunctive value. And when I found Flomenc Greek adi (Klein 1988) and Gorthic (*ub*, *u**P**) (Klein and Condon 1993) to exhibit exactly the same syntax as u, that only served to confirm in my mind the correctness of the internal reconstruction. To repeat, therefore, the critical point in my analysis was that in the construction yii-...shipi-u and in the bulk of its other occurrences it can.

To return to the synchronic plane, it is clear, as indicated above, that the value of us as marker of discourse continuation is essentially the same in the constructions yd-...sh/td-u and sh/td-...sh/td-u, etc.; and therefore if one wishes to operate at a very abstract level, one could speak of a unitary synchronic value under the rubric "discourse continuation" or even "conjunction". The latter would seem to be favored by Hock's arguments (1989), based on phenomena widely found in other OV languages, including Turkish and the Drawidan languages of South Assa, that correlative structures may indeed be viewed as conjoined; it is just that they are not coordinately conjoined. It then could be said that the function of u in the Rigweda is unitarily that of sentential conjunction but not necessarily coordinate conjunction. Since the same syntax is observed in the cases of Homeric Greek as and Gothic -(u)0, one could then posit that same value for PIE *h₀(u)u, the apparent source of all three forms, and duspense with a no reignal analpoinc function across the board.

It is precisely this approach that is taken by Catt (2012). It is also implicit in Dunkel's treatment (1997). Neither author sees a need for an internally reconstructed stage in which u (* $\theta_b(\theta)u$) was a particle of anaphora. This latter was intuitively satisfying to me, largely because I felt more comfortable thinking in terms of translational value, but it is true that Catt's analysis allows us to specify a unitary set of values for u. And, what is more, these values are based on the primary datum of syntactic usage, rather than the secondary issue of translatability.

2 Reassessment

The fact that the two articles in the literature that have commented upon my analysis both reject the "anaphoric value" as original is for me sufficient grounds for revisiting it. In fact, it had always bothered me that the internal syntacto/semantic reconstructions I made on Rigvedic a and Homeric Greek aw (Klein 1988) stand on a different level from that of Gothuc -(u)h (Klein and Condon 1993); for the texts of both the

Rigveda and Homer were composed over a period of centuries and therefore possess immanent diachrony. In both of these cases it would indeed be conceivable that a particle like a could have undergone a syntactic/semantic change over the period of composition of the text, Biblical Gothic, however, presents us with a literary language presumably created ex mirile by one man. This text, therefore, possesses no diachrony whatsoever. If Gothic -(n)h admits of the same internal reconstruction as Rigvedic w and Homeric Greek aw, then that reconstruction must be prehistoric within the language, not a development within the text. Moreover, if the Rigveda, Homer, and Gothic all present us with the same synchronic employments of $*h_2(\ell)u(\cdot)$, the internal reconstruction of the syntax/semantics leading to these synchronic states is itself to be taken as prehistoric in all three,9 meaning that it is already Proto-Indo-European, and the real level of the internal syntactic/semantic reconstruction, if indeed one is to be made, is that of Proto-Indo-European itself-a level that is much less controllable because of the absence of texts in a reconstructed proto-language. But equally importantly, the internal reconstruction is too powerful. That is, given any particle showing both translatable coordinate and untranslatable non-coordinate conjunctive values in any human language, it would automatically select the non-coordinate value, clearly the lectio difficilior, as diachronically primary according to the principle of utrum in alterum, to This seems too mechanical and privileges the semantic analysis relative to the syntax.

To summarize, if we accept Cart's proposal that w is simply a non-coordinating conjunction and drop the internal reconstruction, we are able to bridge the gap between the construction types yie... white w and white... white w, etc. and arrive at a unitary synchronic and (as far as we can tell) diachronic description of w. However, I think we may be able to go further.

Let us first focus on the "anaphoric value" that I originally assigned to u. Note that such a value probably requires some further explication, because the " $\theta/\theta t$ -pronoun is itself anaphore, so that the actual value of u would at best have been to highlight or focus the anaphora. It is here that my more recent research (since 1998) into stylistic repetition in the Rigweda has something to offer to this problem. In that enterprise, which has a completely different focus from my work on u, although it rejoins it under the rubric of Rigweda discourse structure, I have demonstrated that the queen of all repetition types is anaphora stems strike, the exact repetition of a form at the

⁸Dunkel, however, gives very httle synchronic linguistic treatment of *u* and bases his analysis almost entirely on etymological considerations. This is, from my perspective, methodologically backward (see §4 below)

Not to mension that a companison of the different structures involving u against Arnold's metrically based internal drinoidogy of the Rigweda (1905) shows that all were present already in the earliest period of Rigweda verse composition.

To take two notable cases, both Greek al. and Biblical Febrew mt- are employed on occasion apodotically following a relative clause; but to my knowledge nobody has proposed that this was the original value of either of these comunications.

[&]quot;In its present stage, scattered hither and you (mostly in Festschriften) among twenty-two dusets membra which constitute the individual published chapters of this project, to be refashioned as a book (Klein in preparation).

beginning of successive word groups or cola (see, e.g., Klein 1999). Again and again, however, I have discovered that where iterative anaphora occurs together with overt conjunction, it is nearly always withat is involved. That is, what sheen specialized, in a way found with no other particle, as a conjoiner of identically repeated words. And the same would appear to be the case with its cognates in Homer and Gothic. I have to the near exclusion of all other conjunctive particles in the case of anaphora is in part a consequence of the fact that the domain of anaphora (as opposed to adjacent repetition or epanalepsis) is nearly always semential, and w is a semential chitic." But it is a real feature of the employment of w and must be somehow accounted for.

In n. 4 above we suggested the possibility of translating w in the structure yá- .. sá/tá- u as 'which one ... that very one' and said we would return to this possibility. Now is the time to confront it squarely and to attempt to understand how to characterize such a translational value. Note first that if this is right, it does provide us with an overt translation for # in this structure. The meaning would still be non-coordinately conjunctive but would carry the further nuance of focus. That is, it would not be anaphoric per se but would rather focus the material identity of the anaphoric link between ya- and sa/ta-. But this same explanation would apply to all the other sequences involving identity of reference or of lexical item. Let us provisionally term this relationship "identity focus". Such focus differs from a putative anaphoric value in that we no longer have to impute redundancy to # (the actual anaphora being signaled by sa/ta-), but rather a very tangible focusing of the anaphora. There are therefore two functions here: anaphora itself (signaled by std/td-) and focus upon this relationship (signaled by #). As noted, this same characterization would apply to tâm...tâm u, śâm...śâm u, níh...nír u, tríh...trír u, ávänsam...dvānsam u, as well as (in strictly coreferential terms) agnim . . . sú u. It need hardly be said that if the value of s in these passages is identity focus, this would severely limit the scope of the particle and vastly reduce the likelihood that it was a simple conjunction.

3 The importance of sá/tá- u

As justly stressed by Catt (2012), a is an enclitic particle with sentential scope and as such is a Wackernagel's Law clitic occupying second position within the clause, meaning that it follows any type of word that can occur in clause-initial position, be it a relative, interrogative, anaphoric, or deictic pronoun, a preverb, verb, noun, etc. As Catt rightly emphasizes, this means, in principle, that the occurrence of a after skither which I privileged in my analysis, should be of no greater significance than its occurrence following any other first position item in the Rigveda, and that the organization

of my discussion of u based on the type of word it followed in my dissertation and 1978 monograph might have obscured the overall syntax of the particle.¹³

The second reason I believe the collocation *sq/to-hi/ch/u deserves to be privileged is that in Vedic, Homeric Greek, and Gothic the particle and the pronoun are collocated in such a way as to produce either what is treated in Gothic grammar as a real paradigm (Gothic suh/panuh) or a virtual one (Vedic si (si/u), tim u, tim u, tim u, tim si/u (si/u), tim (si/u), t

¹³ Unlike as, which, while having a broad range of coordinate conjunctive usage, is fundamentally a word-level conjunction.

[&]quot;This is implicit in Cart's statement (p. 37) that "despite all that his been written about it, we rill do not say any studies that cannine the particle in its proper context." Nevertheless, if I were to redo my study knowing what I do roday, I would not heisitate to use the same organizational approach, both for its heuristic value and because it is a natural way of handling syntactic configurations, particularly in an orally composed formulae text IB at most importantly, because it is destroyed.

¹⁶ In view of the low ratio of sequences of the type X u. . Y u (cf. n. ?), this seems like a much better solution than Dunkel's suggestion (1997) that X u. . Y has been truncated from the former structure. Nor do I believe that it has been calqued on the type X us . Y, owing to the difference in function between u and as.

[&]quot;I take de to be secondary in these instances. For discussion of Klein 1988 250

¹⁶To these can of course be added Greek holitos (*só-u-to-) and Arcado Cypriot and Cretan опи, employed anaphorically and probably based on original *tóm u, as described by Dunkel (1997: 58)

with the Wackernagel particle u is not surprising. But it is nevertheless a cardinal fact about these languages, and therefore the collocation must be very old. Furthermore, the one conjunctive particle whose shallow prehistory is clear, ¹⁸⁴⁷e, shows no propensity whatsoever to occur after this pronoun, despite its status as a Wackernagel particle. I take this fact to signal a radically different profile for this item, which can conjoin constituents at all levels, from the word to the objact.

Consequently, there must have been something about the particle u that fostered its frequent occurrence with the ul/ul-pronoun to the exclusion of "k"e. The functional difference that immediately imposes itself is scope, that of u being narrower than "k"e. It is only in this way that we can explain the massive propensity for u to appear in coreferentially or iteratively anaphoric sequences." This scopal difference is perhaps visible in X1,13,13by elseb pixiny via a that'y ylutal cut with yluta cut aviation with a ten and pravidmad "Those fathers who are here and those who are not here, those whom we know and those whom we do not know..." Although us is here a constant across all conjoined members, in the final member it is preceded by u. This could be taken to signify that us bears a narrow scopal relationship with yinh, whereas an has broader clausal scope." Therefore, from an Indo-European perspective I cannot agree with Cart's contention (2013;4) that "[t]the fact that u is hosted by an anaphoric pronoun po times rells us no more about the particle than the 85 occurrences of u after preverbs."

In reassessing the value of w to be fundamentally that of a marker of identity focus. I have admittedly not yielded much ground in my reassessment of the particle. After all, "particle of anaphora" and "particle of identity focus" do not differ by very much. However, by recognizing the larter value I have removed any basis for characterizing the particle as "redundant" in a structure such as wife: ...side, w, as I carelessly did at one point in my 1978 monograph (1978b:194). Rather, its original full-blooded focusing value in such sequences, as well as in iterative sequences generally, must at one point have been plapable. The conjunctive use, especially in ristances where there is identity of neither referent nor lexical item, would still be a development of the focal value, beginning with structures of the type tiden...tiden us, etc. An insight into how

istence of three layers in any discourse: that of the simple content or propositional value of the text (representational layer), that of the rhetorical presentation of the text (presentational layer), and that of interaction between speaker/writer and audience (interactional layer). The role of a focus particle belongs to the presentational layer, which is more abstract than that of simple content. Consequently, confronted with sequences such as tám ... tám u, sám ... sám u, etc., a hearer might well be inclined to interpret the particle on the most basic textual level, that of propositional meaning, and assign it the value 'and'. That this is in fact what happened is evidenced by the employment of w in the Rigveda in over 40% of its occurrences as a clausal conjunction, where no scopal effects are perceivable. This is also manifest, to my mind, in the syntax of Homeric Greek aŭ. Thus, in Klein 1988 I attributed much importance to the collocation hoi...ton au (= ya...sa/ta-u) that appears at Iliad 2.615-18, 676-8, 681-5, and 695-8, each of which is an entry within the catalogue of ships, a section of the Iliad which has often been deemed very old, most recently by Tichy (2010). The fact that this construction occurs only here in the Homeric epics I take to be an index of archaism. In fact, most of the occurrences of aii in the Odyssey, the later of the two epics, show adversative, additive conjunctive, and continuative-enumerative values, paralleling the clause-conjoining value of Rigyedic u.

4 Etymology

At this point we have gone as far as we can without taking into account the question of the erymology of w. In short, I continue to maintain that the particle in question is originally the same as that seen in the Vedic pronoun assui/amsim and that it had distal deictic value. Deixis is a multivalent phenomenon that can have reference to time or place, here/there or now/then. It may relate to that which is before the eyes (Bühler's demonstratio ad oculos [1934]) or that which is hidden or dimly perceived (Deixis am Phantasma (Bibd.)). Such notions are the very stuff of metaphor. Thus, I have never doubted that the opposition within the Indo-European verb between the endings *-si and *-s(a/o)u (e.g. Skt. bhárati/bháratu, Hitt. žiai/tītu, Goth. bnirij/bairadau, OIr. burid/perad) marking present indicative (what is factual/evident) and imperative (what is an imagined action attendant upon an obliquely expressed order) is rooted in a deixtic opposition between i and u. *o' I am also tolerably certain in my own mind that the interrogative value of Gothic - us as another extension of distal deixis to the axis of certainty/uncertainty, a question being a classical undication of uncertainty.

A similar axis is that of exophoric vs. endophoric relations. In a pronoun like Skt. asasí/amsím the distal deictic value of u is exophoric: it refers to distance in the real

[&]quot;The precise figure, precentagewise, is hard to nail down because of many ambiguous passages, particularly in those cases that I had earlier remed "formalist", but a maximum lighter that I have earlier word at its also instances of coreference or retenow estructures among 476 undoubted cases of # (43.89). Even if this figure were reduced by a pinnances or so, the calculation would mill come to more than 50%, a senginging figure under the interpretation of six a sample scrittenial conjunction institutive to any more precise features of its synthance convictionment is an a sample scrittenial conjunction institutive to any more precise features of its synthance convictionment.

¹⁶On the other hand, in VI to 3 ab rushrips yf millrisab ydnit patrif / ydnid so (= ca ii) nii dddbywr bhdraddysa Which ones are son of the reward-goving Rudra and which ones she (viz Pfin) (wes) sarsapitivwy shbe to support for bearing..., "ii has been presumably moved to the right of a based on the formshae collocation il nii (18×). This passage shows just how difficult it is to make syntaxix determinations in an orally

⁹Here in any event Cart would need to distinguish between acquences of iterated and non-iterated preverbs. Only the former would show is in its role as a marker of identity focus. For a further consideration militaring against Cart's contention, see \$6 below.

³⁶The absence of aspiration in Sainkin (*48s) and of a largingal in Hintie strongly suggests that this particle did not possess an initial largingal. See below on Luwisin -6s. But this would mean that unless something beyond our lens is going on here (not our of the question for a phonologically exiguous item), we would need to abundon our chymological quantion of a with Homeric asi and Gothic -(sujt. This is why I Characterized the reconstruction *6s(s)s) above as provisional

world. But sights u looks to me like a later recollocation of (this time) *sights with a but now employed not in exophoric but endophoric value, viz. referring not to the space of the external world but by metaphorical extension to that of the text. One could model this at its point of origin by translating yis...sights u as 'which one...that one there (i.e. mentioned prevously)'. Cf. the use of above and below within expository writing (e.g. zee above, zee below). This is itself an endophoric metaphorization of exophoric relations. Or compare the metaphorization elemployment of purely spatial relations like 'upon," "beyond," "further", e.e. in such conjunctions as Classical Armenian aw and Lat. as 'and', or even the adverbally conjunctive use of English fürthermore. The process is the same in all of these: all are the result of endophoric metaphorizations of exophoric relations. ³ May do si Ved. yie...xifis as "

From here, the development to a particle of "identity focus" is a very short step, 'that one there (i.e. previously mentioned)' being easily understood as 'that very one' (note the narrow scope of u in this scenario). And the same would be true in all instances of anaphoric repention, whether they show anaphora sens stricts or polyptotic anaphora. Moreover, the same mechanism can be applied to cases of u in cataphoric position, except that in this case the original 'there' refers to a subsequent relationship. Finally, if this erymology is correct, it effectively refutes Catt's statement that the occurrences of u after skills-tell us no more about the particle than its occurrences after sim, because it means that u belongs originally to the sphere of (distal) pronominal reference, which has nothing to do with sim or other preverbs.

I find this exegesis much more linguistically satisfying than Dunkel's assertion that u represents a syncretism of two separate PIE elements: conjunctive *\(^{h}_{\text{p}}\) and distal \(^{h}_{\text{s}}\). Eiter of all positing such a syncretism should be a last resort, to be attempted only when one cannot find any common underlying function for a synchronically polyvalent element. Second, note that his putative *\(^{h}_{\text{p}}\), which hardly imposes itself, shows no phoneme in common with \(^{h}\). In fact, the only recognizable direct avatar of *\(^{h}_{\text{p}}\) is a Luwian *\(^{h}_{\text{p}}\). But even if one were willing to grant Dunkel's *\(^{h}\) is suppletion as an Indo-European process, until somebody produces a linguistic study of the employment of the Luwian aparticle (does it also present the profile of a focus particle, or is it, as I suspect, like *\(^{h}_{\text{p}}\), a static conjunction?\(^{h}_{\text{p}}\)], I see no reason to bring it into the discussion of Rigwedic as "P Etymology, as a substitute for hard-won synchronic study, is cheap, especially in the case of a word consisting of one phoneme. When Dunkel says, in italies no less, that my analysis of u is "tutterly incompatible with the comparative evidence taken as a whole," what he really means by "evidence" is whatever decontextualized "exymological evidence" strikes his fancy; otherwise he could not in good faith cite Klein 1988, a detailed study of Homeric añ in comparison to Rugwedic u and refer obliquely to Klein and Condon 1993, a complete synchronic and comparative study of Gothic -(u)h in relation to both u and añ, and still make such a statement." As for distal "u, Dunkel would take this particle not in metaphorized endophoric value, as I have done, but rather in its original exophoric value. Consequently, with absolutely no philological control, he cites a number of passages, completely decontextualized from the syntax of u as a whole, in which he thinks he sees the original districtivalue of the particle retained. This complete disregard for the overall syntax of a finguisite item, its dossier, is methodologically vacuous²⁶ and renders the unctuous phrase "questions of method" in the title of his article a parody.

g Conclusion

To summarize, my reassessment of the syntax of the Rigwedic particle u has resulted in one refinement. Instead of speaking of an anaphoric value of u, I would now characterize the particle as a marker of identity focus. This removes the absolute gap, at least on the level of translatability, which I originally posited between the type yd-...u/ytd-u and all other usages of the particle and allows for an easy continuity of employment of the particle. I will no longer call the posited transition from focalization to conjunction an "internal reconstruction" but rather simply the reinterpretation of a surface structure. Moreover, because it is such a simple and natural reinterpretation, it could have occurred independently in the prehistories of Indic, Greek, and

third types. Put another way, the first type belongs primarily to Kroon's representational level, whereas the second and third types belong normally to the presentational level of discourse.

³⁴ Dunkel's most recent word on the subject (2014.2:335) simply repeats his earlier assertion, again with no philological or linguistic analysis to back it up.

[&]quot;Dunkel apparently sets a very low but for what he considers a "mudy." Thus is evidenced by the opening sentence of his 1997 andet, which begins, "When studies of mine on the Righedic particles mentioned above [ac as and invariable als in the ritid | were subjected to configue by J. Klein (1988) and S. Jamison (1994)..." In fact, what I critiqued was nor a "study" of a (which Dunkel has never undertaken) but a few anecdeal remarks in Dunkel folks—which bearms over since anagement with eight Righted to or Homence All.

[&]quot;It is a classeal example of what I have elsewhere (Klein 2001) termed the "fittle Jack Homer approach" "(Pupta) in his turn) and pully of our plant") Dunkel might as well have pecked his cried examples and color of a bat. This is not to say that there might not be some instances in the Riperda where the original exophoric dutal discrice value of a still shumners through Indeed, I suspect that this is what is going on in some instances of hymericitial is following a preverb, such as VII 64,140 bid y at inhibiting virbinalable / shr.yabl. "Upward there goes the assiptious sun, whose eye is upon all." Jos ob bid a things patientamen, which without brainfair "Upward there to the because converb the heavenly listancesa," etc. For the record, Dunkel does undude a passage similar to these (VII.78 ja), but the rest of nis alleged cases are an unsuffield hodegoodse.

² As are also Gk. Houter and Arcado-Cypriot, etc. one.

³²Catt finds this exegess "puzzhing" (2012 56-7); but perhaps 1 was beretofore not explicit enough in my rationale for this development. However, his statement this "diffie" at does not appear to refer to something additionally more antenor in the discounce" (why "additionally more) oddly misses the whole point: 14/14- is does indeed refer to something anterior or, in its cataphone value, posterior in the discounce.

[&]quot;For the terms "stanc conjunction", which is associated with simple extential nexus, often being no ordered celanomia (If a new was use and the temperature was perfect), "sequential nexus", which is associated with narrative continuity and versus structuration, and frequently bears some redisionships to the time axis (If the 1904 with 2006, and 200 filt returnely, and "terative nexus" (The Land shall grant strength to be jumple, the land shall letter the popel with peacy, of them and Condon 1904. The axistant (PP. 1874, Greek Safe, Lann at, and Gothic jable generally squale elationships of the first type; Greek de is primarily associated with the second type, and Regords a, Homerot Greek as, and Gothic, (90) are normally at home in the second and

Gothic The employment of μ m coreferential, iterative, and conjunctive sequences is already in play at the carliest level of the Rigveda. Over time, both in the Rigveda³⁷ and in Homeric Greek, the conjunctive value tended to become more salient, so that the characterization of the particle as conjunctive is ultimately appropriate. ³⁸

References

- Arnold, E. Vernon. 1905. Vedic Metre in Its Historical Development. Cambridge, UK: Cambridge University Press.
- Bühler, Karl. 1934. Sprachtheorie: Die Darstellungsfunktion der Sprache. Jena: Fischer. Catt, Adam. 2012. "The particle *h3(é)u in Vedic and beyond: A new proposal on its
- Gutt, Yadan. 2012. The particle night in Votic and beyonit: A new proposal on its function and ctymology." In Proceedings of the 23rd Annual UCLA Indo-European Conference, ed. Stephanie W. Jamison, H. Craig McIchert, and Brent Vine, 47–59. Bremen: Hempen.
- Dunkel, George E. 1982-3. "IE conjunctions: Pleonasm, ablaut, suppletion." Zeitschrift für vergleichende Sprachforschungen 96:178-99.
- 1997. "Conjunctive u and invariable si in the Ryreda: Questions of method (with a note on Greek dialectal öw and öve)." Indogermanische Forschungen 102:156–78.
- 2014. Lexikon der indogermanischen Partikeln und Pronominalstamme, 2 vols. Heidelberg: Winter.
- Hock, Hans Henrich. 1989. "Conjoined we stand: Theoretical implications of Sanskrit relative structures." Studies in the Linguistic Sciences 18:93–126.
- Klein, Jared S. 1974. "The particle # in the Rigveda." Ph.D. thesis, Yale University.
- 1978a. "The diachronic syntax of the particle u in the Rigveda." Journal of the American Oriental Society 98:266-76.
- . 1978b. The Particle u in the Rigueda: A Synchronic and Diachronic Study. Göttingen: Vandenhoeck & Ruprecht.
- . 1983. Toward a Discourse Grammar of the Rigreda. Vol. 1, Coordinate Conjunction. Parts 1 and 2. Heidelberg: Winter.
- 1987. "The two senses of the term 'anaphora' and their functional unity: Evidence from the Rigveda." In Festshrift for Henry Hoenignwald on the Occasion of His Scientistis Birthday, ed. George Cardona and Norman H. Zide, 193–9. Tübingen: Narr.
- —. 1988. "Homeric Greek αδ: A synchronic, diachronic, and comparative study." Historische Spruchforschung 101:249–88.
- —. 1997. "The contribution of Rigvedic Sanskrit to the reconstruction of Indo-European syntax: Three concrete cases." In Berthold Delbruck y la sintaxis indoen-

- ropea hoy: Actas del Coloquio de la Indogermanische Gesellschaft Madrid. 21-24 de septiembre de 1994, ed. Emilio Crespo and José Luis García Ramón, 253-81. Madrid. UAM: Wiesbaden: Reichert.
- . 1999. "A triadic structural feature of nominal anaphora in the Rigveda." In Cerring und doch von Herzen: 24 indogermanistische Beitringe Bernhard Forsman zum 65. Geburststag, ed. Jürgen Habisreitunger, Robert Plath, and Sabine Ziegler, 119–34. Wieshaden: Reichert.
- 2003. Review of Joseph Greenberg, Indo European and Its Closest Relatives: The Eurosiatic Language Family, Vol. 1: Grammar (Stanford: Stanford University Press, 2000), Journal of English Linguistics 31:370–83.
- —...... In preparation. Stylistic Repetuson in the Rigreda. Manuscript, University of Georgia.
- Klein, Jared S., and Nancy L. Condon. 1993. "Gothic -(u)h: A synchronic and comparative study." Transactions of the Philological Society 91:1-62.
- Krause, Wilhelm, and Werner Thomas. 1960. Tocharisches Elementarbuch. Vol. 1, Grammatik. Heidelberg: Winter.
- Kroon, Caroline. 1995. Discourse Particles in Latin: A Study of nam, enim, autem, vero and at. Amsterdam: Gieben.
- Tichy, Eva. 2010. Älter als der Hexameter? Schiffskatalog, Troerkatalog und vier Einzelszenen der Ilias. Bremen: Hempen.

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[&]quot;But not in the Brahmanas. Cf. Klein 1978b.184-7.

³¹This designation is especially true of Latin assess, however it may relate in its erymological structure to Rigedic ii. Homeric iii. and Gothic -(n)b. The analysis of this particle by Krison (1995) brings our many similarities in particular with Homeric iii.

The Attributive Locative in the Rgveda*

MASATO KOBAYASHI

I Introduction

In many languages of the world, the locative case is marked by an adposition like English in, on, or at, or by a case affix as in Sanskrit. In languages which form an adpositional phrase to denote locus, it is not uncommon that the adpositional phrase directly modifies a noun phrase, as in the English phrases old folks at home, a summer in Berkeley. Some languages have a special morpheme to mark a locative noun phrase modifying another noun in the sense of which is infon/at... For example, Old Japanese -tus is exclusively used to form an adnominal locative phrase such as obsitus stransant white wave in the offing! We call such an adnominal locative NP the attributive locative. In this paper, we will first discuss whether the attributive locative is possible according to Sanskrit native grammar, and then examine whether the attributive locative is attributed in the Reveda, the oldest extant source of Sanskrit

Along with Iranian, Balto-Slavic, and Anarolian, Indo-Aryan has an adpositionless morphological locative case, which typically collocates with verbs to denote the locus of the verbal action. Through this study, we wish to address the question of whether he Indo-Aryan locative case originally covered only the relationship between a verb and the locus of its action, or the relationship between two noun phrases as well.

2 The problem

The Rgveda is a metrical text. Since ellipsis is sometimes employed for metrical reasons, it is often difficult to decide whether a noun in the locative case is an adjunct of the verb or a modifier of another noun. For example, in RV 8.3.4cd satyshi yi says makimid graye / śśwo yajikiu wiprawikpe "Diese seine wahrhafte Größe wirdgepriesen,

"I wish to express my sincere gratitude to George Cardona, Dieter Gunkel, Hirrabi Kumamoto, and Werner Knobl for their kind comments on the earlier versions of this paper. All errors are mine alone, of course. The German and Engisth translations of the Rgyeda are cited from Geldner 16st and Jamison and Beretton 2014, respectively

Abbrevations: a. adjective, acc., accusative; act., active, Asj., Astadhyayi; du * dual, E. feminine, gengentive, ipf imperfect, loc. locative; m: maculine; mid: middle; n: neuter; nom. nominative, NP noun phrase, pl. plural, ppl * participle; pres: present; RV*, Reveda, sg. * angular

'For other similar examples, see Masica 1991:372f , Righhoff 2001:327f., and Dryer 2007:101

seine Stärke bei dem Opfern im Reich der Redekundigen," the locative noum ripraribre 'in the realm of the poets' can be taken either as the locus of the action of the verb grue 'is praised', or as modifying the preceding noum yajiña' at the sacrifices' forming a larger NP. To the present author, the use of the locative to modify another noun sounds uncommon in the Vedic language, but there do exist suspected cases of such a usage, as the dual genitive-locative form båthnöji in the following example:

RV 2.11.6cd stávă vájram báhvór usántam / stávů hárī sáryasya ketű
"Ich will die willige Keule in [deinen] Armen preisen, ich will deine beiden

Falben preisen, die zwei Strahlen der Sonne sind."

Geldner takes biliroli in vifirum haliroli 'Keule in [deinen] Armen' in a locative sense, and Grassmann (fa73) also gives it under the locative of biliri- in his dictionary, not under the genitive which is equally possible. The interpretation of Grassmann and Geldner probably comes from the context. Two stanzas before, in RV 2.11.4b 'shibritim wifirum biliroli dalibnath' "Indem (wir)...de giánzende Keule in deine Arme [sen," the poet cuses biliroli in auranbiguously locative meaning with the participle dalibnath' 'placing'. Apart from the context, it is difficult for us to judge whether the original meaning was 'cudgel in your arms' with the locative or 'cudgel of your arms' with the genitive.

If the poet meant to say 'cudgel in your arms', he could have used one of several ways to express the location of a noun, for example a relative clause, as in RV 7.88.2c rndr ydd dóman "Die Sonne, die im Felsv(erschluß) ist" (cf. Gotő 2000:130 "Wenn das Sonnenlicht im Felsen [ist]," Jamison and Brereton "When the sun is in the rock's a addhita formation as in RV 5.50.4b drinnyla pdidh" das in Get Holskufte befindliche Tier" "the beast seeking the wooden cup [=soma]," a tatpurusa compound as in RV 1.19.1t apunkstidah ... diphadaia "[Götrer, die in...] elf im Wasser wohnt," or a bahuvrhit compound as in RV 1.15.7b gränbahatafah "mit den Prefisteinen in der Hand." Of course, the existence of other ways of expression does not preclude the possibility of an attributive locative. If we are sure that attributive use of the locative denoting locus as in RV 2.11.6b nápran bálmóh is not uncommon, it would help us determine whether bálmóh plere is genitive or locative, and how we should unterpret other similar cases.

3 Pănini on the attributive locative

In Sanskrit, the locus of an action is denoted by a noun in the locative case, unlike freek or Latin where the noun takes a preposition except for a few relic instances. In Pāṇini's grammar, Aṣṭ. 1.4.4.5 alibāru libharanpam (1.4.23 kārākē) "A kārākā [participant in the verbal action] which serves as locus of action is termed adibikaranpa" (Sharma) defines adibikaranpa as the locus of the verbal action, and the seventh caseending triple thy-o-sup, which are the locative endings of the singular, dual and plural numbers, is assigned to adhikarana by Ast. 2.3.36 saptamy adhikarana ca "The seventh case-ending triplet occurs after a nominal when adhikarana "locus" is to be signified [which is not otherwise signified]." According to this definition, the locative case marks an adjunct of a verb denoting the locus of the verbal action.

In addition to its use as a karaka, the locative also occurs to express the relationship between nouns as well. In Ast. 2.3.30 svāmiśvaradhipati-dayada-saksi-pratibhūprasătais ca (36 sasthi, 38 saptams), Pănini mentions the seven words svāmin- m. 'master', iśvara- m. 'lord', adhipati- m. 'ruler', dayāda- m. 'heir', sāksin- m. 'witness', pratibhū- m. 'surety, guarantor', and prasūtu- m. 'offspring', as occurring with a noun in the locative or the genitive case. Similarly, in Ast. 2.3.40 avukta-kusulabhyam casevayam, Ast. 2.3.43 sādhunipunābhyām arcāyām saptamy aprateh, and Ast. 2.3.44 prasitotsukābhyam tytīyā ca, the six adjectives āyukta- 'engaged', kuśala- 'skillful', sādhu- 'excellent', nipuna-'adept', prasita-'engaged', and utsuka-'attached', are mentioned as occurring with a noun in the locative case (or the instrumental for the last two words). While nouns and adjectives taking locative nouns are explicitly, if not exhaustively, listed in these sûtras, Ast. 2.3.41 yatas ca nirdhāranam "A sasthī [= genitive ending] or saptamī also occurs after a stem which denotes many, from amongst which one is singled out" (Sharma) provides a rule that the locative case can be used for a noun denoting entities of which one is singled out.2 These rules are exceptions to Ast. 2.3,50 sasthi sese, where Panini assigns the genitive case for relationships other than those mentioned so far. In other words, Panini considered the genitive to be the default case for any unexplained relationship between nouns (including adjectives).

Even though Pāinin recognizes only a few limited cases of the attributive locative such as singling out (ninthatanan), some of his sūtras on compound nouns secutive such as singling out (ninthatanana), some of his sūtras on compound nouns secute to presuppose adnominal use of the locative. For example, Aşt. 2.1.4.2 dibrinhisprae, kippe (3 samātan), 4 suba supā, 9 sup, 11 vibbisās, 22 satpursupā, 4.0 saiptamī) teaches compounds consisting of a noun originally in the locative case as the first member and dibrahīţa-m. 'crow' as the second member, such as tirtha-dibrāhiṣā-vicīde as a crow in a holy place' (Sharma). Aṣṭ. 0.3.0 hal-ad-anatis saptamyah sampiāṣām (1 alug uttanapade) teaches names containing a noun with a locative case ending as their first member such as armya-tilakibi, the name of a plant literally meaning 'sesame in wilderness'. In addition to such compound rules, Pāṇini uses the locative in an attributive sense in his own sūtra, e.g. Aṣṭ. 1.3.4 na vibhaktau tumāḥ "The dental non-continuans, s and m contained in case endings are notic." Of course, it may not necessarily crificet Pāṇini's own language, if words like partamāna- pres.ppl.mid. 'being, present' are omitted here due to the highly condenses sūtra syle of the Aşadılyāyi, as the Kāškiā Vṛtī comments.' In later Sanskrit, an adnominal use of the

²Furthermore, according to Asy 2.3.9 yannad adinkan yaya cebarawacanam tama saptami, an adpositional phrase with a noun in the locative case can modify another noun when excess or dominance is intended.

³Compound nouns of this type occur in later texts, e.g. Atharva Veda (Śaunaka) 10.5.5c apsu-yogdib 'with water junctions' (Whitney 1905, 580). See Wackernagel 1905, 46

*In this connection, supplying a copula verb in a nominal sentence is also mentioned by Kätyäyana, in

locative noun occurs more often, especially in non-finite subordinate clauses (Speijer 1886:105, Speyer 1896:22), e.g. Mahabharata (Poona edition) 3.28.23c śarātisarge śūdratvāt "because of (Ariuna's) quickness at discharging arrows."

4 Results

In the previous section, we reviewed the usages of the locative taught in Pājuni's grammar and confirmed that Pājini accepted only limited cases of attributive locative, in which adnominal use of the locative of locus (ādhārān) is not included. Based on those usages and adding a few more, we will group the suspected cases of attributive locative in the Rgweda in this section. We tried to narrow our search, but since there are numerous cases of the locative, many of which cannot be extracted by a simple searching algorithm, the examples cited here represent a very limited portion of passages with the locative in the Rgweda.

4.1 A noun in the locative and another noun, connected by a verb

When there are two semantically connected nouns side by side and one of them is in the locative, it is often the case that they are connected by a verb. For example, RV 1,32.8c spachaths biblink vigirum systalm "da hieltest du die cherne Keule in den Armen" and RV 4,32.5c dddhāno vigirum biblink vigirum will wenn er die begierige Keule in den Armen half" contain vigirum acces, of ripfra-m, 'cudgel' and biblink loc.du. of biblini-m. 'arm' side by side, but since these nouns are the direct object and the locus of the verb syndiathbib jif.asg, mid. of yam' to hold' and the participle dddbibnab prac plantid, of bibl' to put', especiatively, they are not connected directly.

Similarly, vánesu loc, pl. of vána- n. 'wood' and mygó mahishí nom.sg.m. 'a wild buffalo' in RV 9.92.0 d sídan mygó ná mahisó vánesu "líst de sích lätterende Soma in die Krüge gegangen,] wie ein Buffeluer in den Wäldern, in den (Holz)gefaßen sich niederlassend" "taking his seat like a wild buffalo in the woods //wooden cupsi" are connected not directly but by means of sídan pres, ppla.et. of sad 'to sit'. In RV 9.62.8c sídan yóna vánesp á "[Rinne du ... und] setze dich auf deinen Platz in den Holz/gefaßen]!" "[Rush ...] sitting on your womb, in the wooden (vessels)," yóna loc.ge, of yóni- m. 'lap, abode' and wánesu loc.pl. 'in the woods' are both loci of the participle sídan 'sitting' even though they might refer to an identical place, meaning in a lap, i.e. in wooden vessels'. In RV 9.86.6d sítta ni yóna kaláseps sídani "setzt soth der gern Sitzende an seinen Platz, in die Krüge" "seated in his womb, he sits down in the tubs" as well, yóna loc.ge, of yóni- m. 'abode' and kaláséps loc.pl. of kalási- m. 'wooden lucter' are connected on to each other but to the verb sad sídai' to sit'.

Variille 11 to Agt. 2.1, a first blownest jears by methomosparus 'prosvojamento by art (I 445,6 to In Kselhorn's chitson), where he explains that the verb as "be" inflected in the present third person is to be suppared in a nominal equational sentence like presul plashad Plaksa is a tree even if it is not actually used

While there is unequivocal barakar relationship in these cases, it is sometimes difficult to judge whether the locative noun is a modifier of an NP or an adjunct of the verb. night- m.n. and nightie f. (victorious) in the following examples might be modified by the preceding nightus, loc.pl. of night- m. 'contest, prize', but it is also possible that nights is an adjunct of the verbs ni'- sharts to support or nightys- to compete': RV 1.4-8c prihro nightus nightus nightus nightus the singegewinner in den Kämpfen um den Siegerpreis "You helped the prizewinner to the prizes'; RV 1.4-9ab night that nightus nightu

In the following two examples, viditihe loc.sg, or viditihesu loc.pl. of viditihes. n. 'distribution → assembly' can be interpreted as modifying unriving nom.pl.m. of survinarich in heroes' or vedidatah nom.pl. of valdids-in winglary', but they might simply be a
circ in the cost or vedidatah nom.pl. of valdids-in winglary', but they might simply be a
cost of the actions of the verbs rad 'to say' and ran'0 'to elect', respectively: RV 2.1.16d and
Book a passim bridai valenum viditahes survinih 'Wiir möchten das große Wort führen als
Meister in der weisen Rede [?]" "May we speak loftily at the ritual distribution, in
possession of good heroes", RV 10.91.9ab vähm id ihra vrpnatz ninjviny libidirma nagme
vididahestu vedidstah "Nur dich erwählen da deine Anhänger zum Hott, o Agni, die
Meister in den Weisheitsreden" "Just you do they choose here—the ritual adepts
devoted to vou — as Hotar at the rites, o Agni."

4.2 A noun in the locative connected with a deverbal noun or adjective

We saw in \$4.1 above that when a noun in the locative and another noun appear side by side, they might be connected not with each other but indirectly with a verb as its adjunct or argument. The same applies to passages where a noun in the locative is governed by a noun or an adjective of verbal origin, such as săsabi- from sab 'to win'. Examples include the following:

pṛtanstus loc.pl. of pṛtansā- f. 'bartle' plus a derivative of sab: sābate to win', astash- or sālhar: RV 1.102.pb tvām babhātha pṛtansāsu sāsahh' "du warst der Sieger in den Kāmpfen"; RV 2.3.11b nāṭapā sātrum pṛtansasu sāsahh' "... in Ausbrenner des Feindes, in den Schlachten siegreich", RV 7.56.23c marid-bbir sugrib pṛtansāsu sālba "Durch die Marut bleibt der Gewaltige Sieger in den Schlachten; RV 8.61.12a sugrim pṛvajima pṛtansāsu sālbām "Wir haben den Gewaltigen, in den Kāmpfen Siegreichen, in Anspruch genommen"; RV 8.70.4a sāsalbam sugrim pṛtansāsu sasabim "Wir haben den Gewaltigen, in den Kāmpfen Siegreichen, in Anspruch genommen"; RV 8.70.4a sāsalbam sugrim pṛtansāsu sasabim "Den Unbezwumgenen, Gewaltigen, in den Schlachten Bezwungenden"

samaltsu loc.pl. of samalaf. f. 'fight' plus süsahi- a. or samnif- a. 'winning': RV
2.12.3d samnift samaltsu sei januase éndenh "der Sprelgewinner in den Kampfen
- der, ihr Leute, ist Indra"; RV 9.4.8b samaltsu süsahih "in den Kämpfen sugreich."

vánesu loc.pl. of vána- 'wood' plus uśádhah- a. 'burning avidly' (meaning unclear): RV 3.34-3c áhan vyámsam uśádhag vánes[u "Er [=Indra] erschlug den Vvansa in den Hölzern gierig brennend."

Many deverbal nouns govern cases different from the corresponding verbs to express kāruka relationship; for example, verbal adjectives in -nā- take an instrumental (or, in certain concexts, genitive) noun to denote the agent, as Pānini mentions in Aṣṣ. a.3.18 karṛ-karunayas tṛṭṇḍi. However, there are also deverbal nouns which behave as if they were finite verbs in case government. For example, deverbal nouns such as jugmi-, derived from the weak stem of the reduplicated sem of gam 'go' with the suffix Kārī, do not mark their objects with the genitive case according to Aṣṭ. 3.3.17, a rule to which Kāryāyana ascribes sātashi-, too. Since the deverbal noun governs the locative noun as its kāruka, these are not to be regarded as cases of the attributive locative.

4-3 Noun or adjective governing a locative noun

Not only verbs but also some nouns and adjectives govern specific cases. A well-known example is nationare. n. 'obeisance', which takes a dative noun for its recipient, as Pāṇni trachein Aṣṭ. 2,316 manul-psnati-nabi-nadallam-nada-yagāc ao. There are such words for the locative, too (Delbrück 1888.120, Speyer 1896:12, Hettrich 2007: CaIII-34). The noun abbangae m. 'participant' regularly takes a locative noun as in the following examples: RV 1,136.4bc simo bhāra napahsarp ábbanga/ dwd davtyr ábbangah "Dieser] Soma... der Genosse bei den Gelagen,' der Gort der Genosse der Götter ist" "Let the one here, this soma,... the one who gives shares in the drinking places—the god who gives shares to the gods," and RV 8,33,6b bglath prajāra blahagam "Mach [den rechtmāßigen Herrm...] der Kinder teilhaft!" Haudry (1977:84) notes that the adjective nyblase 'comfortable' takes a locative noun as in RV 5,44.15d hävählam anni sakhipi nyblah "In deiner Freundschaft fühle ich mich heimisch" "dans ton amité, (jer me ses comme) chez moi" (Renou).

táiru- m., a. 'hero, heroic', like sátahí- etc. in §4. a above, is connected with yatus, loc.pl. of yidib- f. 'war' in the following example: RV 9.89.3x tátro yatus prathamah prephatam gáhi 'hls der vorderste. Held in den Kämpfen erkundigt et sich nach den Kühen'' (this might fall under §4.5 helow). So is rájám- with apni, loc.pl. of áp- f. 'water', in the following example: RV 10.43 sed váuh sanáh sánáu apni rájá / ví bháty ... 'det gute Soln der Krafi, det Kónig in den Gewässern, estrahli et ... ''

Willman-Grabowska (1928:65) points out the similarity of such locatives to the partitive genuive

4.4 With a copula or existential verb: "A is in B", "something is or becomes A in B"

In a sentence with an existential verb, a noun in the locative may occur with another noun. In such sentences, the locative noun can be either an adjunct of the verb or a modifier of another noun:

RV 2.1.2d brahmá chi grhápatrí ca no dáme "Du bist sowohl der Brahman als auch der Hausheri in unserem Hause", RV 2.10.3b bbinná agnih parapitäsus apárbaha "Agni ward Leibestrucht in den viellarbigen (Höbzem"), RV 5.0.7d, 5.10.7d, 5.16.5d, 5.17.5d háidáh pyrsú no vyábó "und sei du uns zur Stärkung in den Kampfeni." And let him be present to strengshen us in battles"; RV 6.48.2c bbinná vájep avitá "Er sei der Helfer in den Preisklumpfen".

When an equational sentence has a locative noun as its predicate, it is also indistinguishable from an NP with the attributive locative, especially when a copula verb as:

4sti is not present.

RV 5.54.11 ámsesu va rstávah patsú khadávo / váksassu rukmá maruto ráthe śúbhah / agníbhrājaso vidyúto gábhastyoh śíprāh śīrzásu vítatā hiranyáyīh "Auf euren Schultern sind die Speere, an den Füßen die Spangen, an der Brust die Goldmunzen, ihr Marut, am Wagen die Prunkstücke, feuerglänzende Blitze in euren Händen, an den Häuptern dehnen sich die goldenen Zahnreihen (?) aus"; RV 1.51.3b -u/tátraye śatáduresu gatuvít "dem Atri warst du Pfadfinder in dem hunderttorigen (Hausc)"; RV 1.52.2a sá párvato ná dharúnesy ácyutah "Unerschütterlich wie ein Berg in seinen Grundfesten ist [Indra]"; RV 1.61.90 svarål indro dáma å visvágürtah "Indra ist der Selbstherrscher in seinem Hause, von allen gepriesen" "Sovereign king, Indra, sung by all in the house": RV 1.178.3a jétű nýbhir índrah pytsú súrah "Indra, der Held, ist mit den Mannern Sieger in den Schlachten"; RV 4.21.6d yó no mahán samváranesu válmih "der unser großer Wagenführer (des Opfers) in den Gehegen ist"; RV 8.71.11cd dvitā yó bhúd améto mártyesv á / hótā mandrátamo visí "[Zu Agni, ...] der abermals, der Unsterbliche bei den Sterblichen, in der Niederlassung der wohlredendstc Opferpriester ward,"

4.5 Pāṇini's 'locative of singling out' (nirdharana)

As cited in §3, Pāṇini mentions several non-bārnān usages of the locative in Aṣṭ. 2.3. We do not have actual examples of sưðmin- m. 'master', tímm- m. 'lord, kuśala- a. skulful' etc., words which Pāṇini lists as occurring with a locative noun, from the Rgweda. However, we do have examples of Aṣṭ. 2.3.41 yatas an nirdhārnanam, which provides that a noun takes the locative along with the genitive when it denotes things

from among which something is singled out. Hettrich (2007:Ba-6, CaIII-33f) gives this under the usages of the locative case.

RV 1.10.2.0 ab trains devise presidenties haumstake "Dich rufen wir zuerst unter den Götterm an"; RV 1.180.8. anjdayo narfun nieju pridastah "Agastya, der unter den Männern der geprieseme der Männer ist"; RV 6.9.5 männ jänztiam patisyastva natish "der Gedanke, der unter den fliegenden (Wesen) das schnellste ist"; RV 8.7.1.101 devisid yöhdida anstjen märstyepp å helöt mandristamo viti "[Zu Agni,...] der abermals, der Unsterbliche bei den Sterblichen, in der Niederlastung der wohlredendste Opferpriester ward" (given in § 4.5 above), sitä might be a case of the locative of singling out, if sits Collectivity refers to proople!

4.6 Examples that look like genuine attributive locatives: 'A in B'

RV 5.61.2c pysthe sido nasór yámah "[(Wo ist)] der Sattel auf dem Rücken, der Zaum in den Nüstern (der Rosse)?" "(Where is) the seat on their back, the bridle at their nostrils?"

In this stanza, masór in masór ydmaḥ must be a locative because pṛṣṭhé in the parallel phrase pṛṣṭhé sidaḥ can only be a locative. And since pṛṣṭhé sidaḥ and nasór ydmaḥ are subjects of the verbless existential sentence of which the predicate is knh "where' in pada a, artivibutive relationship is clear.

RV 2.11.6c stávā vájram bāhvór usántam "Ich will die willige Keule in [deinen] Armen preisen" (cited above in \$2)

Since it is unlikely that arms are the locus of praising, and since taking balmor as a gentive ('cudgel of the arms') does not make much sense, we should take vairam balmor as 'cudgel in the arms'.

5 Discussion

In \$4, we tried to find genuine and unambiguous cases of the attributive locative, i.e. a noun in the locative forming an NP with another noun. While the singling-out relation ('A among B') is mentioned in native grammar, the containing relation ('A in/on/ar B') is not taught by Pāṇni, and we are particularly interested in the existence of this latter type.

In the suspected examples of attributive locative, the following points are worth noting:

a) A finite verb, a participle, or a deverbal noun or adjective stands between the noun in the locative and another noun, and the connection of the two nouns is indirect and loose. Even when the two nouns look directly connected, they may be taken over from preceding context where they are connected through a verb, e.g. båhróh, in RV 2.11.6c vájram báhróh looks modifying vájram directly, but in fact these nouns occur in RV 2.11.4b connected through the participle dádhánah.

b) A copula or an existential sentence is considered to underly the combination of the two nouns. In such cases, the two nouns form a nexus rather than one NP. In RV 5.61.2, ppythé sádab' the saddle (which is) on the back' and nashr yámab' the bridles (which are) on the nostrik' can be taken as forming nexuses.

Although we have not checked enough examples of the locative in the Rgveda to draw a generalization yet, so far it is difficult to find an unequivocal example of the attributive locative of locus which is not taken over from preceding context. In its earliest stage, Sanskrit may not have had an adnominal usage of the locative of locus, and most apparent cases of adnominal usage can be explained as an extension of the binulas relationship of a verb or a verbal derivative, present or omitted.

References

Delbruck, Berthold. 1888. Altindische Syntax. Halle: Waisenhaus.

Dryer, Matthew S. 2007. "Noun phrase structure." In Language Typology and Symactic Discription, ed. Timothy Shopen, 151–205. Cambridge, UK: Cambridge University Press.

Geldner, Karl Friedrich. 1951. Der Rig-Veda: Aus dem Sanskrit im Deutsche übersetze und mit einem laufenden Kommentar versehen. Cambridge, MA.. Harvard University Press.

Gotö, Toshifumi. 2000. "Vasishha und Varuna in RV VII 88." In Indoarisch, Iranisch und die Indogermanistik, cd. Bernhard Forssman and Robert Plath, 147–61. Wiesbaden: Reichert.

Grassmann, Hermann. 1873. Wörterbuch zum Rig-Veda. Leipzig: Brockhaus.

Haudry, Jean. 1977. L'emploi des cas en védique: Introduction à l'étude des cas en indoeuropéen. Lyon: Éditions l'Hermès.

Hettrich, Heinrich. 2007. Materialien zu einer Knsusyntux des Rgredn. Manuscript, Universität Wurzburg. www.philt.uni-wuerzburg.de/fileadmin/04080400/temp/ /Materialien.pdf

Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigueda: The Earliest Religious Poetry of India. 3 vols. Oxford: Oxford University Press.

Masica, Colin P. 1991. The Indo-Aryan Languages. Cambridge, UK: Cambridge University Press.

Rijkhoff, Jan. 2001. "Dimensions of adnominal modification." In Language Typology and Language University, vol. 1, ed. Martin Haspelmath, 522–33. Berlin: Mouton de Gruyter.

Sharma, Rama Nath. 1987–2003. The Astadhyāyi of Pānini. 6 vols. New Delhi: Munshiram Manoharlal. Speijer [Speyer], Jacob S. 1886. Sanskrit Syntax. Leiden: Brill.

- . 1896. Vedische und Sanskrit-Syntax. Strassburg: Trubner.

Wackernagel, Jacob. 1905. Altindische Grammatik. Vol. 2, part 1: Einlettung zur Wort lehre. Nominalkomposition. G\u00f6tringen: Vandenhoeck & Ruprecht.

Whitney, William Dwight. 1905. Atharva-Veda Samhitā. 2 vols. Cambridge, MA. Harvard University Press.

Willman-Grabowska, Helena de. 1928. Le locatif dans le Rig-Veda Warsaw: Faculté des lettres de l'Université de Paris.

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Zur "Vokalisierung" der Laryngale im Indoiranischen*

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r Einleitung

Das Phanomen der "Laryngalvokalisierung" gehört zu den auffälligsten Besonderheiten der indogermanischen historischen Phonologie und hat in den letzten Jahrzehnten viel Aufmerksamkeit gefunden. Für viele Sprachzweige gibt es detaillierte Untersuchungen zur Lautentwicklung der urindogermanischen "Laryngale", und doch ist vieles noch unklar. Bemerkenswerterweise gibt es gerade zu zwei der in diesem Zusammenhang wichtigsten Unterfamilien jedoch keine ausführlicheren Spezialuntersuchungen, nämheh zum Anatolischen und Indoiranischen. Beide Sprachzweige spielen neben dem Griechischen eine Hauptroße sowohl für die grundsätzlichtheoretische als auch für die praktische Rekonstruktion der Laryngale, und dennoch gibt es zu beiden keine größeren Spezialmonographien über dieses Thema wie die von Beckes (1969) und Peters (1980) zum Griechischen, Schrijver (1991) zum Lateinischen oder Zair (2012) zum Keltischen. Beim Anatolischen wird das Thema allerdings ausführlich nicht nur in Melcherts (1994) allgemeiner Darstellung der historischen Phonologie behandelt, sondern auch in Klockhorsts (2008) Wörterbuch. Fur das Indoiranische gibt es hingegen noch kein ausführliches neueres Handbuch,1 und auch die kurze Darstellung von Manfred Mayrhofer (2005) bietet zwar eine sehr nützliche Ubersicht und Zusammenfassung, ersetzt eine genauere Untersuchung iedoch nicht wirklich. Die umfangreichste Diskussion bietet in jungster Zeit Lipp (2009:II 351-464), der speziell auf die Vokalisierungsregeln eingeht, weil sie für die Chronologie der Palatalisierung der Velare wichtig sind. Aus seiner Diskussion mit ausführlichen bibliographischen Angaben wird ersichtlich, dass nicht nur der Prozess und Zeitpunkt der "Vokalisierung" umstritten sind, sondern oft auch die Deutung der konkreten Ergebnisse. Sowohl beim Iranischen als auch beim Indoarischen herrscht keine Einigkeit über die ursprüngliche Distribution der verschiedenen Reflexe und deren Entstehung, namlich Null (keine Vokalisierung), i und 1; im Iranischen ist zwar zweifellos ersteres am häufigsten, im Indoarischen dagegen 1, doch zu Details gibt es teilweise vollig konträre Auffassungen.

2 Indoarisch i

Einen wesentlichen Beitrag dazu hat nun schon vor Jahren die Jubilarin geleistet, die sich mit dem synchron selteneren, sozusagen "abweichenden" altindoarischen Reflex i beschäftigt hat (Jamison 1988). Die Bedeutung dieses Beitrags und seine Konsequenzen für die indoiranische Lautgeschichte ist meines Erachtens nicht hinreichend erkannt worden. Stephanie Jamison zeigt in ihrem Aufsatz, dass der oberflachliche Eindruck eines gewissen Chaos bei der Verteilung von i und i trugerisch ist und man den Langvokal nur in einer Position als lautgesetzlichen Reflex von vokalisiertem Laryngal anzunehmen hat, nämlich vor Konsonanten in einer (potentiellen) Endsilbe, also bei ursprünglichem *CHC#. Überall sonst wurde nur zu i vokalisiert oder gar nicht. Fälle von i für einfaches *H außerhalb dieser Position seien durch analogische Generalisierung zu erklären, vor allem bei den Formen der Wurzel grabh-/grah-(letztlich alle nach dem Wurzelaorist grabhis, grabhit). Bei einer typischen Umgebung von f ist diese Erklärung aber zumindest problematisch, nämlich bei f im schwachen Stamm der Nasalprasentien der Klasse auf -nā- ~ -nī- und reduplizierter Prasentien wie mima- ~ mimi- "messen". In deren Paradigma kommen praktisch keine Endsilben mit *-HC# vor, und so kann man hier nur Übertragung aus dem zugehörigen Aorist vermuten (so nach Jamison), doch ist das wohl weniger wahrscheinlich (s. dagegen Praust 2004).

Da im Vedischen I in Endaslben gewohnlich erhalten bleibt, kann man Fnicht einfach aus älterem *i herleiten.* Die Vertrerung als I hat Praust (2004) genauer besprochen und dabei vorgeschlagen, den Langvokal durch Ersatzdehnung eines vor dem Laryngal entstandenden Sekundärvokals zu erklären. Die Position des Sprossvokals vor dem Laryngal sei in Endaslben regular, bei den Nasalpräsentien in Binnensilben aber analogisch zu erklaren: *naH-: *nHi- wurde zu *naH-: *niH- umgestaltet (ebenso *minaH-: *miniH- - *minimH-: miniH- usw.).

Wenn man das ernst nimmt, folgt daraus, dass in genau diesem Kontext vor dem Schwund des Laryngals eine Lautfolge "CHFC# vorgelegen haben muss. Die Frage ist nun, wie diese Folge zustande kam und wann der Laryngalschwund startfand. Gewöhnlich wird angenommen, dass postvokalische silbenauslautende Jaryngale schon uriir. schwanden. Das wurde dann bedeuten, dass auch die Vokalepenthese vor dem Laryngal schon uriir. gewesen sein müsste. Folglich wäre auch im Iranischen in dieser

^{*}Fur Hinweise und Diskussion hier besprochener Probleme danke ich Reiner Lipp und Sergio Nen. Der Artikel sieht im Zusammenhang mit der indoiranischen Grammatik, die der Verfasser demnachst vorlegen wird (Kümmet in Arbeit)

^{&#}x27;Gotő (2013) behandelt nur die Morphologie des Indoarischen.

^{*}Lupp (2009:II 39)f Anm. 97) deutet eine Erhlarung an, nach der in geschlossener Sibe ein geschlossenes überkupten zu artikuliert worden sei, das später wegen gleicher Qualitat mit dem Langvokal i zusammengefallen war. Für einen derartigen Vorgang fehlt im Indoarischen aber jede Parallele

Position Epenthese und Ersatzdehnung zu erwarten. Tatsachlich wird von vielen (s. Lapp 2009:II 392, 399-400, 40-67 mit Literatur) für virtuelle Endsilben eine schon untr. Epenthese angenommen: darauf kommen wir später noch zuruck.

2.1 Laryngalmetathese

Die Entstehung von *CiHT# ist nun aber problematisch deswegen, weil man bei ciner Epenthese eher **CHiT# erwarten wurde als eine Form mit Konsonantengruppe in der Koda. Es ist aber leicht moglich, tatsachlich letztere Entwicklung als ersten Schritt anzunehmen. Das Resultat **CiHT# kann namlich durch die bekannte Laryngalmetathese erklärt werden (vgl. dazu Mayrhofer 1986:174-5), die offenbar bei *Hi (und parallel *Hu) zwischen Konsonanten stattfand: vgl. z. B. **gH1-tá- gesungen* > "giHtá- > ved. gitá-;3 bemerkenswerterweise aber auch bei "CiHuC > "CyuHC, vgl. *stHu-tá- > *syuH.tá- > *syū.tá- > ved. syūtá- ,genäht'. Diese Larvngalmetathese kann nicht als Verbesserung der Silbenstruktur motiviert werden, weil dann unverstandlich bliebe, warum sie nicht auch bei *CHaC stattfand. Dagegen kann man sie als Sonderentwicklung vor hohen Vokalen verstehen, wenn man damit rechnet, dass diese zunächst mit dem Laryngal verschmolzen und danach davor eine neue Epenthese stattfund: *CHiC > *CHiC > *CHiC > *CiHiC > *CiC bzw. **C(t)HuC > $*C(i)H^*uC > *C(i)H^*C > *C(y)uH^*C > *C(y)uC$. Wenn der entsprechende Laryngal ein [h] oder dorsaler Frikativ war, ist eine solche Entwicklung phonetisch sehr wahrscheinlich, da solche Laure sehr leicht von i- und u-Vokalen bzw. Approximanten beeinflusst werden (s. Kümmel 2007:161, 272; vgl. die spätere Entwicklung von *hy, *hw zu avest. &/x" etc.), und sie konnten auch besonders leicht den folgenden Vokal stimmlos machen und damit dessen Synkope erleichtern. Wenn also durch Epenthese ein *CHiT# entstanden war, lagen die Bedingungen für die Laryngalmetathese vor, und es konnte daraus *CiHT# entstehen

3 Zur Chronologie der Epenthese

Die Voraussetzung ist aber natürlich, dass es in virtuellen Endsüben Epenthese eines gewöhnlichen Kurzvokals *i gab, und wegen der Datierung all dieser Prozesse vor dem Laryngalschwund wäre es vorteilhaft, sie als bereits (vor)urir. arzusetzen. Nun nimmt allerdings Tichy (1983) an, dass im Iranischen und folglich im Urindorranischen ein echtes *i nur im absoluten Auslaut entstand, während überall sonst gewöhnlich ein uberkurzer Vokal resultierte, der tranisch wieder schwand. Dieser Ansatz macht zwar die Erklarung von ieanischen if-Stammen aus Stammen auf **CH-atumoglich, die für Falle wie av. Imuii-.Gewalt*, sta*is* "Lager* naheliegend und der um weit verbreitet ist (ygl. die Luteratur bei Litscher 2007; Lipp 2009/II 406f.). Das

kann aber nicht als entscheidendes Argument gelten, weil es prinzipiell moglich ist, alle diese Stamme als echte "if-Stamme zu deuten (s. Litscher 2007), die ihr "i von einem i-Stamm bekommen haben.

Das Hauptargument gegen schon urindoiranische Epenthese in Endsilben sind nun gerade die avestischen Entsprechungen von vedischen Verbformen wie (a) grabhit etc., denn im Avestischen gibt es hier keinen Unterschied von set- und anit-Wurzeln, genauso wenig wie bei Binnensilben: vgl. 2. Sg. mraof, 3. Sg. mraof, möist, auu-an zu uriir. *mrawH-, *mayth-, *hanH- ım Gegensatz zu ved. ábravīs, ábravīt; ánīt. Allerdings sind nur genau diese vier relevanten Formen belegt, und es kann kaum ausgeschlossen werden, dass sie analogisch entstanden sind: Weil anders als im Indoanschen der Vokal nur in Endsilben aufgetreten ware, waren diese wenigen Fomen synchron stark aberrant und konnten nach dem Vorbild der anit-Wurzeln ersetzt worden sein, z.B. *mraw-i-t → * mraw-t ,sprach' nach *sraw-t ,horte'.* Zudem hätte im Avestischen die mögliche Verwechslung mit einem Optativ auf -f-t stören konnen, was im Vedischen nicht gilt, weil dieser Bildetyp beseingt wurde (s. Harðarson 1993:116-7). Als sichere Gegenbeispiele gegen bereits urur Epenthese eines Vollvokals % in virtuellen Endsilben können diese avestischen Verbalformen also nicht gelten. Einfacher zu erklaren wären sie aber, wenn man (wie Tichy) mit einem überkurzen Vokal *b/l/, rechnen könnte, der erst indoarisch mit *i zusammenfiel, tranisch aber wieder schwand.5 Dann müsste man allerdings, um die Länge von i zu erklären, den Laryngalschwund und die Ersatzdehnung so spät ansetzen, dass sie erst nach dieser indoarischen Entwicklung geschahen.

2.1 Zur Epenthese in Binnensilben

Die Rekonstrukton von überkurzem *b stützt sich nun primär auf eine entsprechen de Entwicklung in Binnensilben, und diese ist nicht unumstritten. Werba (2005; ähnlich schon Pinault 1983:205; Kobayashi 2004:136-9) argumentiert dafür, dass die Vo-kalepenthese in solchen Fällen im Iranischen nie stattgefunden harte, was zweifellos tokonomischer wäre. *Tichy (1985) und Lipp (2009:II 351-2, 374-98) haben zwar versucht, mithlife der palatalisierenden Wirkung des Sekundarvokals eine Datierung in die Zeit der uriir. Velarpalatalisierung zu erweisen: Da wed. dubridr- (und auch der murisanische Reflex dieses Wortes) Palatalistering von *g**eigt, wäre es ja am okonomischsten, mit einem schon uriir. palatalen Vokal zu rechnen. Das ist jedoch fraglich: Werba (2005) rechnet mit einer sekundären Palatalisierung, was chronologisch (pate Lipp) möglich scheint. Zu beachten ist dabet, das voed. dubtidr- ja tatsachlich der

[&]quot;Wettere Bespiele sind **af*in-tá- gesauge' > *af*ih-ta > *af*i-tá- > ved dhītā-; **p\$f±-tá- gerrunken' > *p\$f±a > *p\$tā > ved, ptā-; unscher ved. 3. Sg. Avorst áitia Jaa gescharft', da hier auch ein *ááta < *af*ifta von zegehongen Praens sáf- beruflusts sen konner, vgl Verbaladskin frát.

^{*}Vgl. Schindler 1975:265f., Ravnzes 1981:256; Lipp 2009:II 407. Leider ist unklar, ob in P. 22 втаниц der Injunktiv einer set-Wurzel vorliegen konnte, bei der diese Umgestaltung nicht geschah.

^{&#}x27;So Tichy 1985-239f., Mayrhofer 2005; Lipp 2009 II 362.

^{*}Gegen Kuiper (1976) und Teemblay (2003:123f. Anm. 34; 153 Anm. 182; 2005a 68tf., 2005h 9) gibt es wohl keine Fälle von tranischer "Vokalisierung" in Binnensilben, s. Lipp 2009:460~4

einzige Beleg für Palatalreflex vor einem sekundaren i ist. Für h anstelle von ah gibt es hier eine andere mogliche Erklarung: Bekanntlich konnte im Vedischen nicht nur die palatale Media aspirata *th (bzw. *źh) zu h werden, sondern zumindest teilweise auch bb und vor allem db. Für gb nennen die Handbucher zwar kaum Belege, aber es gibt keinen Grund, es prinzipiell auszuschließen.8 Nun ist h für erwartetes dh gerade neben i besonders haufig.9 Wenn das beim Koronal *af so war, ware es beim Velar *g kaum weniger wahrscheinlich, und nichts spricht dagegen, dass sich urindoarisch *dughitárzu dubitär- entwickelt haben kann, ohne dass man deswegen mit einer vorindoarischen Palatalisierung rechnen müsste. Brauchbare Gegenbeispiele existieren nicht, da man erhaltenes gh vor i im Rigveda wohl nur in draghtvas- Jänger', draghistha- Jänger' findet, deren unpalatalisiertes gh ohnehin analogisch vom Positiv dirghú- lang' bezogen sein muss. Eine alte Palatalisierung vor laryngalbedingtem i kann also im Indoarischen nicht nachgewiesen werden. Zwar zeigt Prasun lüßt "Tochter" offenbar, dass im Nuristani eine Palatalisierung geschehen ist, doch kann man wohl nicht ausschließen, dass sie sekundar war - unabhängig davon, ob man Lipp (2009) darin folgt, dass hier eine "iranische" Entwicklung mit Schwund des überkurzen Vokals vorlag oder ob man mit Synkope von *i rechnet. Aus dem Wort für "Tochter" lässt sich also kein relativ-chronologisches Argument für schon urindoiranische Epenthese im Inlaut gewinnen.

2.2 Weitere Fälle von Endsilben

Im Unterschied zu Binnensibben gibt es für Endsilben jedoch plausible Kandidaten für "Vokalisierung" schon im Urindoiranischen, bei denen auch im Iranschen i erscheint: Die schon erwähnten i-Stamme sind zwar fraglich, aber es gibt noch einen zweiten Typ von Stämmen, in denen i als Laryngalreflex auch iranisch vorkommen konnte: Die Rede ist von Stammen auf i-CH-i-Wie den vedischen Wurzelnomina des Typs -sini(i)- $\sim si$ -gewinnend", bei denen der Stamm auf -i-nur im Nom. Akk. Sg. alt zu sein scheint, was auf einem alten Nom. Sg. auf ** CH-i-> ** CH beruhen dirfte, ** Oizeer Typ scheint zwar iranisch nicht sicher belegbar zu sein, doch gehören hierher wohl auch noch einige Wörter mit suffixalem ** h_3 , die auch iranisch vorkommen: ** Am bekanntesten ist sicherlich voch ** ints ** ints ** ints ** ints ** ints ** ints ** ints ** ints ** ints ** ints ** ints ** ints and ** ints ** ints ** ints ** ints ** ints and ** ints ** int

*Alle übngen Wortformen mit i für Laryngal wie z.B. ngunf "spitz" zeigen keine Palitalisierung, wes-halb Kuper (1944.27) die für laungesetzlich halt, sie könnten aber analogisch erklärt werden (Wackernagel 1896 142, Werba 2007/102-Ann. 281. Lipa 2008.] 18 18 f.)

uriir. * $\acute{q}\acute{a}n$ -h- \sim *gn- $\acute{a}h$ - < idg. *g" $\acute{e}n$ -h₂- \sim *g"n- $(\acute{a})h$ ₃- herleiten kann (vgl. Harðarson 1987:130). Zwar rekonstruiert Harðarson (2014:23f. mit Anm. 4) nun doch wieder einen "echten" i-Stamm *g**én-i- ~ *g**én-i-, doch ist das keineswegs zwingend; zumal die dehnstufigen Formen (germ, *k"eni-, ved. -jäni-) offenbar immer "Ehefrau" bedeuten und damit eine deutlich engere Semantik als ved. sáns- haben (s. dazu Kazzaza 2001:187-94, 246f.), das semantisch besser zu Fortsetzern von *g*en(a)b2- wie toch.B suna, germ, *h"enon- passt. Diese herkommliche Erklarung von uriir, *gan(b)i- lässt sich auch durch einen weiteren Parallelfall stutzen: Es ist nämlich möglich, auch die indogermanisch isoherte i-Flexion von ved. nábhi- Nabel, Nabe' aus alterem *nāb'hzu erklären. Diesen Fall will ich an anderer Stelle ausführlicher besprechen und gebe hier also nur die Hauptthese (vgl., auch Kummel im Druck): Ich rekonstruiere ur-iir. *ndb*-h- ~ *nab*-(a)h-, das durch Paradigmenspaltung einerseits *ndb*h(i)- > vcd. nábhí- (und nábh-?) und gemeiniran. *naf- und *nafi- (in khot. neha, pamir. Xufi něf etc.)," andererseits *nab*ā- (wohl Lokativ) > av. nabā- und *nab*(h)- (als Grundlage von ved. nábbya- "Nabe") ergab. Nach Pinault (2012:125f.) setzt auch ved. védi- "Altar" ein *wazd-b- fort (aus *we-zd-h2-, what is set apart', dazu *we-zd-h2-és- > *wazdhás- > *wazdfds- > ved. vedhds-). All diese Fälle setzen voraus, dass bei Stämmen auf *°C-Hschon uriir. ein % auftreten konnte, das dann wahrscheinlich im Nom. Sg. auf *°CHs > *°CHii entstanden war und von diesem aus in den Akk, Sg. *°CHim übertragen wurde.

Störend ist für diese Erklarung die Kürze des i, da man ja in Endsilben nach dem oben Gesagten eben gerade I erwarten sollte. Die Kurze kann aber wohl dadurch erklart werden, dass eben schon fruh ein Akkusarva uuf "Him entstanden war und damit eine morphologische Zuordnung zu den i-Stämmen, für die kurzes I charakteristisch war. In der Folge "Him# wäre die Metathesenentwicklung wohl fruh blockiert woren, da sie zu einer umerwinschten Koda "Him# geführth hätte, in der das Prinzip der wom Silbenkern aus kontinuierlich abnehmenden Sonorität (SSP) verletzt worden wäre (Realisterung des m als silbischer Nasal kam zu diesem Zeitpunkt wohl nicht mehr in Frage).

3.3 Gesamtentwicklung in Binnen- und Endsilben

Wenn also Metarhese auch bei sekundarem "HF gilt, erhebt sich naturlich die Frage, warum im vedischen Inlaut gewöhnlich keine Metathese bei ehemaligem "CHC zu finden ist, warum es also nicht faluhtär-, †mathitä- suw. heißt, sondern eben aluhtitär-, mathitä- etc... Auch hier wäre ja mit altem "dugi mtår-, *mathitä- zu rechnen. Die Antwort kann nur in der relativen Chronologie legen: Der Sekundarvokal war in Endsiben eben schon früher entstanden, noch vor der schon urindoiranischen Metathese, in Binnensilben jedoch erst relativ spät im Indoarischen, so dass sich nach dem bald

^{*}Ved -h- aus *gf* kann in den Namen R\u00e4b\u00e4gama- und viellescht auch Jahna- vorliegen (s. Mayrhofer 2003 fr\u00e4, Remmer 2005 fof mit Aum. 163), au\u00dferren viellescht auch in mustphass Gerham', f\u00e4it das wegen iran. *maatingsan- eine Verform *maatigf\u00e4an- wahrscheinlicher ist als *mautgf\u00e4an- in keinem dieser F\u00e4llen kann freilich eine zualogische Übertragung ausgeschlossen werden.

⁹Vgl. Lubotsky 1995, Kobayashi 2004 84-91

¹⁰ Zur Entwicklung vgl. Kuiper 1942.80-2, Debrunner 1954 294-6. Scarlata (1999) halt zwar nur ***CHm > ***Cim im Akkusativ für alt, doch wäre hier wohl unbedingt ***CHm → ***CHm zu erwarten.

[&]quot;Zuf < *bb s. Kümmel im Druck, vgl. besonders jav. mar. groß' < *made.b- neben maxii < *made.ab"Fälle mit Länge we pårimas-, guånybbind- sund deutlich in der Minderheit und durften ohnehin nicht lausgeseitzlich auf *plat/Hass-, zujanybl/Fird- zurickgeben.

danach anzunehmenden Laryngalschwund einfach i ergab. Eine frubere Epenthese in Endsilben ist naturlich leicht zu motivieren, wel dort ja prinzipiell eine komplexere Struktur vorlag. Im Anschluss an Werba (2003) und Byrd (2013) scheint mit das folgende Szenario am wahrschentlichsten (formuliert in silbemphonologischen Begriffen).

Eine Sequenz *VCHCV wurde uriir. und auch transech als *VCHCV realisiert, und da *HC wie *YC ein moglicher Silbenanlaut war, bestand kein Anlass für Epenthese. Im Indoarischen war jedoch dieser Typ von Silbenanlaut nicht mehr moglich, eine Realisierung als *VCHCV hätte aber eine unerlaubte Koda ergeben. *V als Losung bleiben nur Tilgung des Frikatus (wie bei dem parallel gelagerten Fall von *bêt > kt) oder Epenthese zu *VCHECV Bei auslautendem *VCHT# pedoch lag bereits uriir. eine problematische Struktur vor: *VC.HT# war wohl nicht zulässig, weil keine extrasyilabische Doppelkonsonanz erlaubt war, und *VCH.T# hatte eine unzulässige Koda. Durch eine Epenthese konnte hier auch die morphologische Struktur besere bewahrt werden als bei Tilgung eines Konsonanten, so dass sich als beste Lösung *VC.HT ergab, woraus nach dem oben beschriebenen Prozess *VC.HT entstand, mit Ersarzdehung *VCCHT.

4 Zur Entwicklung in Erstsilben

Wenn nun der epenthetische Vokal durch den Laryngal gedehnt wurde (und nicht etwa ein überkurzer normalkurz wurde), folgt daraus, dass man in allen Fällen von kurzem Sekundárvokal damit rechnen muss, dass dieser nicht vor einem Larvngal gestanden hatte. Das bedeutet, dass man für i in Erstsilben wie bei ved. pitrir- Vater' nicht mit *pihtár- rechnen konnte, sondern nur mit *phitár-; dies jedoch ist nicht möglich, weil es zu ved. †phitár-, av. †fitar- härte führen müssen. Es bleiben dann nur zwei Auswege: 1) Der Laryngal wurde in diesem Kontext direkt vokalisiert: dagegen spricht, dass dies anderswo im Indoiranischen wohl eben gerade nicht geschah und dass außerdem im Avestischen ja auch *pt(r)- fortgesetzt wird. Nach Tichy galt die Direktvokalisierung nur im Vokativ wegen der Anfangsbetonung: dann wäre wohl eigentlich ved. pitar ~ *phitár- zu erwarten, und man müsste mit Generalisierung von p- rechnen. Hier ist jedoch die Plausibilität einer Sonderentwicklung im Vokativ problematisch, da die Akzentverschiebung eine ältere Vokalentstehung bereits voraussetzt. 2) Der Laryngal muss schon vorher geschwunden sein, und der Sekundärvokal in *ptt(r)° steht nur zufallig an seiner Stelle, entstand aber in der Anlautgruppe *pt- und/oder *ptr- erst nach dem bereits erfolgten Schwund des Laryngals. Unter welchen Bedingungen in diesem Kontext Epenthese stattfand, wäre noch zu klären: Nach Byrd* hatre man urspreinglich *pußr ~ *pußr-, was grundsatzlich am plausibelsten scheint, wenn es auch impliziert, dass dann im Avestuschen die unbequeme Gruppe *p³b- *f/Br-/ analogisch entstanden sein musste. Für diese Verteilung spricht auch das Wort für "Vatersbruder", av. tu/riia-, chwar. fewr, pašto trz., da es auf *ptzwazuntekweist.

Theoretisch wäre demnach keine "Vokalisierung" zu erwarten, wenn die Gruppe nach Larvngalschwund einen zulassigen Silbenanlaut bildete, also z. B. nicht nur bei *pHtV° > *ptV°, sondern auch bei *sHCV° > *sCV°. Hier konnte man ved. sita- = av. hitu- < uriir. "sitá- ,gebunden" als Gegenberspiel nennen, das ja häufig auf "shatázurückgeführt wird. In diesem Fall ist es jedoch wahrscheinlicher, dass eigentlich *s(h)itá- vorliegt, das regular zur synchronen Vollstufe *s(h)ay- gebildet ist (vgl Kümmel 2000:549-50; 676). Reguläre Epenthese wäre dagegen bei *dhtá- > *dhtá- und *sthtd- > *sttd- zu erwarten, zumindest wenn die morphologische Struktur durchsichtig bleiben sollte, darum also ved, bitá-, sthitá- und danach analogisch auch mitázu mā-. Das war jedenfalls die Lösung im Indoarischen, während im Iranischen in solchen Fällen die Nullstufe gewohnlich durch Vollstufe ersetzt wurde, weshalb sich *dāta-, *stāta- ergab. Analogisch musste man dann auch den Aorist uriir. *diá- für *dus-d- zu *áds- < *ádus- crklären, da eine Anlautgruppe *60 möglich gewesen wäre. Es liegt aber auf der Hand, dass *60 (> *50) die paradigmatische Transparenz stark gestört hätte, weshalb die Wurzelform "ćii-, die wohl im Kontext "čhstá- > "ćStá- > *ástá- regulär entstanden war, auch in den thematischen Aorist eingeführt wurde. Die synchron wirksame Regel, nach der Laryngale in der Nullstufe in Erstsilben uriir. gewöhnlich als *i reflektiert sind, ist damit wahrscheinlich das Ergebnis verschiedener Prozesse und nicht eines einfachen Lautgesetzes *H > *i.

Literatur

Beckes, Robert S.P. 1969. The Development of the Proto-Indo-European Laryngeals in Greek. Den Haag: Mouton.

- . 1988. A Grammar of Gatha-Avestan. Leiden: Brill.
- Byrd, Andrew Miles. 2015. The Indo-European Syllable. Leiden: Brill.

Debrunner, Albert. 1954. Altindische Grammatik.. Band II, Teil 2, Die Nominalsuffwa Gottingen: Vandenhoeck & Ruprecht.

Gotö, Toshifumi. 2013. Old Indo-Aryan Morphology and Its Indo-Iranian Background Wien: Verlag der Österreichischen Akademie der Wissenschaften.

[&]quot;Au wahrschernlichen Beschraubungen der Silbenstruktur im fülken Indournischen und Indournischen vogl generell Byrd 2015. Fur Teile des Iranstehen rechne sich allerdings mit einer noch stärkeren Besorzus gung kompierer Omere gegenüber Kodas, die zu einer Sylabehinzerung "VTC führte, wie das öffenbar im Sogialschen der Ell ist Unter dieser Armahme best zuch die avestielche Metrak wei besser als (unsprunglich) quantmerend verstehen (dazu dermachst mither) an anderer stelle).

¹⁴Byrd 2015;97-105 IIII Anschluss an Insler 1971;573 Anm. 2, Beckes 1988 86f., Beckes 1997.20.

[&]quot;Lapp (2009. II 362f., 389; 399) rechnet umgekehrt mit "putir ~ "ptr., was unter unseren Prämissen nicht moglich ist.

- Harðarson, Jón Axel. 1987. "Das uridg. Wort fur "Fraut." Munchener Studien zur Sprachwissenschaft 48:115-37.
- 1993. Studien zum urindogermanischen Wurzelaurist und dessen Vertretung im Indoranischen und Griechischen. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- . 2014. "Das andere Wort für "Frau" im Urindogermanischen." In Studies on the Collective and Feminine in Indo-Euopean from a Diachronic and Typological Perspective, hrsg. Sergio Neri und Roland Schumann, 23–55. Leiden: Brill.
- Insler, Stanley. 1971. "Some problems of Indo-European *2 in Avestan." Language 47: 573-85.
- Jamison, Stephanic W. 1988. "The quantity of the outcome of vocalized laryngeals in Indic." In Die Laryngaltheorie und die Rekonstruktion des undogermanischen Lausund Formensystems, hrsg. Alfred Bammesberger, 213–26. Heidelberg: Winter.
- Kazzazı, Kerstin. 2001. "Mann" und "Frau" im Rgveda. Mit einem Exkurı über Wörter für "Frau" im Albarvaveda. Innsbruck: Institut für Sprachwissenschaft der Universitat Innsbruck.
- Klockhorst, Alwin. 2008. Exymological Dictionary of the Hittite Inherited Lexicon. Leiden: Brill.
- Kobayashi, Masato. 2004. Historical Phonology of Old Indo-Aryan Consonants. Tokyo: Research Institute for Languages and Cultures of Asia and Africa, Tokyo University of Foreign Studies.
- Kuiper, F. B. J. 1942. Notes on Vedic Noun-Inflexion. Amsterdam: Noord-Hollandsche Uitgevers Maatschappi.
- . 1976, "Old East Iranian dialects," Indo-Iranian Journal 18:251-3.
- Kummel, Martin Joachim. 2000. Das Perfekt im Indoiranischen. Eine Untersuchung der Form und Funktion einer ererben Katgorie des Verbuns und ihrer Weiterentwicklung in den all-indoiranischen Sorachen. Wiesbaden: Reichert.
- ——. 2007. Konsonantenwandel. Bausteine zu einer Typologie des Lautwandels und ihre Konsequenzen für die vergleichende Rekonstruktion. Wiesbaden: Reichert.
- Im Druck. "Lautgeschichte und Erymologie: Jungavestisch mas- groß." In Iranian and Indo-European Linguistist and Onomastis. Proceedings of the Symposium in Memory of Manfred Mayrhofer (1926–2011), hrsg. Rudiger Schmitt, Hans-Christian Luschutzky und Velizar Sadovski. Wien: Verlag der Österreichischen Akademue der Wissenschaften.
- In Arbeit. Urindoiransche Grammatik. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Lipp, Reiner. 2009. Die indogermanischen und einzelsprachlichen Palatale im Indoiranischen. 2 Bdc. Heidelberg: Winter.
- Litscher, Roland. 2007. "κρέας, kravíh and the original nom.-acc. sg. of the IE sstem neuters." In Greek and Latin from an Indo-European Perspective, hrsg. Coulter

- George, Matthew McCullagh, Benedicte Nielsen, Antonia Ruppel und Olga Tribulato, 107–20. Cambridge: Cambridge Philological Society.
- Lubotsky, Alexander M. 1995. "Sanskrit h < *db, bh." In Sthåpakairåddham Professor G.A. Zograph Commemorative Volume, hrsg. N. V. Gurov und J. V. Vasil'kov, 124– 43. St. Petersburg: Centr Peterburgskoje Vostokovedenic.
- Mayrhofer, Manfred. 1986. Indogermanische Grammatik. 2. Halbband: Lautlehre [Segmentale Phonologie des Indogermanischen]. Heidelberg: Winter.
- , 2003, Die Personenamen in der Rgveda-Samhita. Sicheres und Zweifelhaftes. Munchen: Verlag der Bayerischen Akademie der Wissenschaften.
- 2005. Die Fortsetzung der indogermanischen Laryngale im Indo-Iranischen. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Melchert, H. Craig. 1994. Anatolian Historical Phonology. Amsterdam: Rodopi.
- Peters, Martin. 1980. Untersuchungen zur Vertretung der indogermanischen Laryngale im Griechischen. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Pmault, Georges-Jean. 1983. "A neglected sound-law. The reduction of the Indo-European laryngeals in internal syllables before yod." In Papers from the 5th International Conference on Historical Linguistics, hrsg. Anders Ahlqvist, 265–72. Amsterdam: Benjamins.
- 2.012. "Aspects of Vedic semantics and etymology: vedbás- and védi-." In Indic across the Millennia. From the Rigneda to Modern Indo-Aryan, hrsg. Jared S. Klein und Kazuhiko Yoshida, 113-34. Bremen: Hempen.
- Praust, Karl. 2004. "Zur Instorischen Beutrellung von griech. xöhön, der alfindischen 9. Präsenslässe und zur Frage grundsprachlichen zu- Präsenslein." In Artes et Scientiae. Festschrift für Ralf-Peter Rüter zum 6. Geburstug, hrsg. Peter Anreiter, Marialuise Haslinger, Heinz Dieter Pohl und Helmut Winberger, 360–90. Wien: Präsesens.
- Ravnæs, Erling. 1981. "The development of a/interconsonantal laryngeal in Iranian." Indo-Iranian Journal 23:247–73.
- Remmer, Ulla. 2006. Frauennamen im Rigveda und im Avesta. Studien zur Onomastik des ältesten Indischen und Iranischen. Wien: Österreichische Akademie der Wissenschaften.
- Scarlata, Salvatore. 1999. Die Wurzelkomposita im Rg-Veda. Wiesbaden: Reichert.
- Schindler, Jochem. 1973. "Zum Ablaut der neutralen s-Stamme des Indogermanischen." In Flexion und Wortbildung Akten der V Fachtagung der Indogermanischen Gestlischaft, hrsg. Helmut Rix, 259–67. Wiesbaden: Reichert.
- Schrijver, Peter. 1991. The Reflexes of the Proto-Indo-European Laryngeals in Latin. Amsterdam: Rodopi.
- Tichy, Eva. 1985. "Avestisch pitar- / ptar-. Zur Vertretung interkonsonantischer Laryngale im Indoiranischen." Münchener Studien zur Sprachwissenschaft 45:229–44.
- Tremblay, Xavier. 2003. La déclinaison des noms de parenté indo-européens en -ter-. Innsbruck: Institut für Sprachen und Literaturen der Universitat Innsbruck.

— 2005a. "Bilderen die iranschen Sprachen ursprunglich eine genetische Familie oder einen Sprachbund innerhalb des indo-iranischen Zweiges? Beitrage zur vergleichenden Grammatik der iranischen Sprachen V." In Sprachbundus und Sprachwandel. Akten der XI. Fachtagung der Indogermanischen Gesellschaft, hrsg. Gerhard Meiser und Olav Hackstein, 673 88. Wiesbaden: Reichert.

. 2005b. "Iranian historical linguistics in the Twentieth Century [Part One]." Indo-European Studies Bulletin 11:1-23.

Wackernagel, Jacob. 1896. Altındische Grammatik. Band I, Lautlehre. Göttingen: Vandenhoeck & Ruprecht.

Werba, Chlodwig H. 2005. "Sanskrit dubitār- und ihre (indo-)iranischen Verwandten. Zur "Vokalisierung" der Laryngale im Ur(indo)arischen." In Indagermanua. Festschrift Gers Klungenuchmist, hrsg. Günter Schweiger, 699–732. Taimerung: Schweiger VWT-Verlag.

Zair, Nicholas. 2012. The Reflexes of the Proto-Indo-European Laryngeals in Celtic. Leiden: Brill.

Tudáti-presents and the tēzzi Principle

MELANIE MALZAHN

As pointed out by the honoranda in her masterful review, Hill's recent monograph on the Indo-Iranian tuddit-presents (often called Aoristprisentien) and some related matters (2007) "is a useful, careful compendium of data from which other scholars can draw and on which they can build" (Jamison 2012:28). In what follows I will try to heed this call for an additional treatment and to clarify in a succinct manner what may have been the PIE background of these Indo-Iranian formations.

Generally speaking, zero-grade thermatic root presents can easily be taken as thematizations of athernatic root presents with non-Narten ablaut* whenever the root semantics ("verbal character?") are not clearly punctual and whenever there exist thematic nasal presents of the Ved. vindáti/Lat. iungū type in the relevant branch/ language—i.e. thermatic nasal presents containing the weak-stem allomorph of a corresponding athernatic nasal presents. Such nasal presents would always provide a perfect

To give an example, the root "Josh". 'Decome crushed/old; crush, make old' (although telic) evidently had a non-punctual verbal character and formed a (pre-) sigmaric aorist with Narten ablaut "Josh", c/c); accordingly, Ved. jainsi 'make old, cause to reach a certain age! fjiardstam 'make decay' can be analyzed as two different kinds of thematization of a PIE non-Narten root present "Josh", 'Josh", first, idit, wise, since the root "zen", 'cross (a large river), pass over, traverse, overcome: 'was evidently telic and non-punctual as well and formed a (pre-)sigmantia aorist with Narten ablaut "teths, "thesh", Ved. thatin's (cross, traverse, overcome! 'sitti (only attested with a preverb) usually 'promote, draw' (i.e. acting as a true causative of transtive tárnati)' may similarly derive from a non-Narten athematic root present "teths, ill" the, shall with the advanced and practically with the zero-grade allomorph of the root "the, -olpm-, as

[&]quot;Such an approach can already be found in some works of the early 1880s; see e.g. Osthoff 1882 288–9
(At that time, scholars still considered reconstructing a class of thematic present stems showing root ablast.)

"For the semantics of this root, see especially Watkins 1991.140–6, Hill 2007 140–64, 298–9, and most recently Lazgronia 2014.290–2.

¹Note augmant. RV attivinus and Latin frilles, which must have started out as an acrist participle (as has been convincingly argued by Vine 2003;20-1), and which seem to derive from an augmant full-grade form "rinth₂ (o)m. For the Celtic cognates of Lat. rinth₂ see Schumacher 2012, according to whom (363) Proto Celtic "transit was "das laurgescrichte Resultar von vorurkelt "tr/spit."

per Watkins 1991.140).4,5 See also Hill 2007:206-14, 290-1, 301 on Vedic yuvátt (mostly middle forms) 'hold on tight(ly)',6 and his statements on pages 201 ("Somit setzt ein Teil der altındorranischen Aor.-Prás, wahrscheinlich -á-Derivate zu athematischen Wz.-Prasentien fort: *idu- ~ *iu- ~ *iu-d- > ved. Aor.-Pras. yuvu-. Das Ableitungsmuster kann dabei auch alter als erst urindoiranisch sein") and 301. In a similar way, LIV2 187 explains Greek roadow 'write', which seems to be a zero-grade thematic root present as well, by setting up an athematic root present with non-Narten root ablaut *gérbh-/*grbh-, and applies the same strategy to γλύφω 'carve, cut out with a knife' (LIV2 190).7 If it is true that roots with a durative verbal character formed athematic root presents with non-Narten ablaut and that alongside athematic root presents there could exist thematic variants with full grade of the root already in Late PIE,8 one should also reckon with the possibility that athematic root presents with non-Narten ablaut had thematic variants with zero grade of the root already in Late PIE as well,9 especially if this kind of present-stem formation was already found with aoristic roots at an earlier stage of PIE.

However, such a strategy cannot work for those zero-grade thematic root presents that are clearly derived from roots with punctual verbal character and for which athematic root agrist forms with non-Narten root ablaut are attested. This description in fact holds for many of the zero-grade thematic root presents found in the various branches. Therefore, Hollifield (1977:123),10 Schumacher (2004:37), and Hill (2007:291, 301) deserve credit for keeping distinct zero-grade thematic root presents based on present/imperfect roots, i.e. what may be called yuváti-presents, and zerograde thematic root presents based on agrist roots, which may be called tudáti-presents

"The same distinction was apparently also made by Brugmann (1916:114-5) and may have been hinted at already in Osthoff 1882.289-91. No such distinction is explicitly made in LIV1, but as has already been noted by Dahl (2005;59 n. 11), only three out of the twenty zero-grade thematic root presents set up for PIE and labeled as "sicher" ("certain") by LIVa are not found alongside a root agrist with non-Narten ablaut made from the very same root (viz. the ones set up for *k/kers-, *kersys-, and 2. *legg/f-, see LIV2 355, 371, and 410, respectively). Still differently, Renou (1925;110) explicitly separated Vedic zero-grade thematic root presents such as largetts that are attested alongside corresponding Vedic athematic root presents such as lasti from the

an equation with Vedic vijate and/or vijati (Malzahn 2010:321).

homogeneous class, in which he was followed by Lazzeroni (1978) 13 Strongly opposed by Lehrman (1985'235, 259-61; 1993; 1998'204, 228)

rest of the Vedic zero-grade thematic root presents that are obviously not, but then treated the latter as a ¹³Remarkably, Szemerényi quoted as examples for what he evidently thought of as an inherited present type two Greek present stems that according to LIVa did not derive from this type (see above).

proper. At least for the latter type, there seems now to be a growing consensus that

it existed already in PIE, see Oettinger 1979:31412 and apud Bammesberger 1984:22;

Szemerényi 1990:286 ("*glubhō in γλύφω ... neben *gléubhō in lat, glūbō ..., *grbhō in

γράφω... neben *gérbhō in mhd. kerben");13 Strunk 1994:424 = 2005:1014; LIV2 18-9,

715-6;14 Jasanoff 2003:222-3; Schumacher 2004:37, 772-3; Pooth 2009:393-4; Trem-

blay 2009;500; Fortson 2010:98; and Beekes 2011:254-5 ("There are also present-tense

forms with zero grade in the root: PIE *tu-dé 'to bump'. Skt. tudáti ... Often forms

with full grade are found along with the above. The forms with zero grade seem to

have an aorist meaning")." I must admit that I myself poured some fuel onto this fire

by pointing out that the Tocharian B Class II subjunctive *wka/e- 'avoid' may form

from a oristic roots - i.e. roots with punctual verbal character that formed root agrists

with non-Narten ablaut-zero-grade thematic root presents could be formed just as

well as full-grade thematic root presents.16 Nevertheless, there are some disturbing

As far as I can see, one cannot raise principled objections against assuming that

44 Admittedly, I fail to see by which criteria PIE zero-grade thematic root presents are set up and then labeled as "sicher" ("corrain") by LIV1. On the one hand, a present stem *Whyt-6- is ranked among the "sucher" instances despite the fact that its reconstruction is based on the sole evidence of Lat. curré (LIV 355). Furthermore this verb has durative semantics ("run"), so it is rather an athematic root present "Kers-/"Kersthat seems to suggest itself. On the other hand the root "neght- 'antreiben, in Bewegung halten' is said to have had an athernatic root present "seath,-sub,-" (LIV" (18-9) despite the fact that there is no clear evidence for a full-grade present-stem allomorph *tesh- at all, note that LIV* itself reports that the relevant present stems of Hittite. Vedic, and Celtic have all been derived from a "sub-é/6- in some of the earlier literature. If Indic and Iranian do not count as two different branches, only nine out of the twenty examples of PIE zero-grade thematic presents called "sicher" by LIV2 are claimed by LIV2 itself to be attested by at least two branches (viz. the ones set up for the roots "g"erb, 1, "leng., "lenH., "peu-, 1, "seb,(1)., "prienH., "g"erH. 2. *neils, and 1. *nerss see LIV2 s.vv.).

"See also already Hollifield 1977 118f and 122, who was, however, much more hesitant and uncertain ("remains open to a certain amount of doubt"; "However, it might be the case that Leumann and Renou are right in denying that a root thematic present with accent on the thematic vowel existed in Indo-European")

16 But note the discussion and qualification in Hollifield 1977.41-5 "[I]t is a significant fact that active root acrists, unlike middle ones, appear not to have occurred beside thematic root presents in Proto-Indo-European. In Vedic, one has almost no examples of an athematic root agrist which is only active appearing beside a thematic present" (41); "The only reliable example of a thematic present to an action tantum root agrist is Vedic bhápats. Avestan bassasts 'becomes,' agrist abhát. In this case, however, the thematic present is not reliably taken as inherited from Proto-Indo-European. All the other language families that

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^{*}To be sure, Watkins himself reconstructed the present participle as "tylo-rist-,

^{&#}x27;For this analysis of Vedic tárati/tiráti, see already Lehrman 1985 260, 1993, and 1998.228. It is unclear to me whether Lehrman actually wanted all zero-grade thematic root presents of Indo-Iranian to be explained this way, i.e. as thematized variants of athematic root presents with non-Narten ablaut (as has/had been done before, see Hill 2007:6-7); see his similar takes on Vedic man and lmáti in Lehrman 1008:230-241. Vedic sunds in Lehrman 1985'261 and 1998,228, and Vedic sphurits in Lehrman 1985:259-60, 1993, and 1998;228.

[&]quot;This is the original meaning of the root as reconstructed by Hill (2007:206): "Das Aor.-Präs, yawa-muss in etwa die Bedeutung 'etwas (Akk.) festhalten' gehabt haben, kommt im Text des RV allerdings praktisch ausschließlich in sekundären spezialisierten Verwendungsweisen vor", the root is usually glossed as bind,

^{&#}x27;As far as γλύφω and its cognates are concerned, basically the same approach can already be found in Osthoff (882 288-9

⁸Sec LIV⁸ 76-7, 661-2, as for the question of thematization, Lehrman 1998:232-52 and Lazzeroni 2010

^{*}See already Brugmann 1916.115. "Die Formen des prasentischen Typus nis-ri... wurden vielfach, gewiss auch schon in der Zeit der idg. Urgemeinschaft, in themavokalische Flexionsweise übergeführt. Dies geschah aber nicht nur von der starken, sondern auch von der schwachen Stammgestalt aus, und die in letzterer Weise entsprungenen Typusformen bekamen durch diesen Wandel keineswegs sofort perfektive (aonstische) Aktion "

[&]quot; It is the probability of a double origin of this class of verbs in an Indo-European present stem class and in thematic agnists that I presume can account for the large number of forms with secondary endings in this class of verbs in the Rig Veda."

facts seemingly at variance with such an assumption, coming from both Greek and Indo-Iranian.

First, Greek is not involved in any of the twenty zero-grade thematic root presents reconstructed for PIE and labeled as "sicher" by LIV2, with the exception of "*luH-é-", said to be attested by Gk. λίω 'unbind, dissolve' and Lat. luö 'pay, atone for (LIV2 417).17 However, for the Greek root λυ- no lautgesetzlich outcomes of fullgrade allomorphs *le/ouH- are found, so that one may suspect that the root "*leuH-'abschneiden, losen'" ('cut off, dissolve') had started out as a non-ablauting root "luHof the *bhuH- kind.18 Accordingly, Gk. λίω and Lat. luö19 may rather derive from a PIE present *lúH-e/o- than from a PIE present *luH-e/o-.20 In addition, it has already been noticed21 that the evidence provided by the handbooks in support of Ancient Greek tudáti-presents proper is rather poor.32 There are no clear instances of tudáti-presents proper in Homeric Greek;23 and some poetic thematic agrist stems, such as 100e/o-'go', κλυε/ο- 'hear', and reduplicated πεφνε/ο- 'kıll', seem to turn into present stems before our very eyes, a development that was probably caused by the fact that these verbal stems were no longer part of the poets' vernaculars. As for the alleged Doric presents of the τράπω type (i.e. with -ρα- instead of the -ρε- attested in other dialects), it is extremely likely that their -ou- was due to paradigmatic leveling on the one hand and the tendency of Doric and North-West Greek to lower /e/ next to /r/ on the other.34

Second, there are problems with the Indo-Iranian evidence as well. Although two different branches seem to attest a zero-grade thematic root present stem made from

show a present stem to this most have one built with a \$\frac{1}{2}\text{o}\$ suffix ... Hence one can draw the conclusion that in Proto-Indio European basically active verbs, that is, verbs mainly of action, and basically middle verbs, that is verbs of process, have different under of derivend imperfectives standing in opposition to underived root perfectives. In verbs of action in which one finds an active root aonst, there is an active natalinific or reduplicated present, but not a thomatic root present... On the other hand, verbs of process with underived, middle root perfectives will generally have imperfectives consisting of root plus the thermatic vowed or root plus the unifix \$\frac{1}{2}^{\text{o}}\$ \(^{1}(4+\text{o})\). It is indeed true that transitive roots with punctual verbal character do seem to prefet the formation of natal presents instead of full-grade thematic roots present.

"As is evident from Schumacher 2004;465, a Proto-Celtic "#-luy-q6-"sich listen" ("free oneself of, escape from") should be added to this Greco-Latin evidence. For the Greek and Latin verbs see also the thorough discussion in 8-deletably \$2.00 to 9-17

¹⁸See for the apophonically invariant behavior of * $b^{\mu}uH$ - in PIE Jasanoff 2003;112–3 n 52 with references.

¹⁹And in addition Proto-Celtic * $^{10}e^{-it}$ (see n. 17 above).

"Similarly, the PIP present stem "task-(#6-sometimes reconstructed on the evidence of Hart, haughe" push (away), shove, cast off (see Kloekhort 2004/792-8), Vedic nordin 'mped, ast un motion' (see Hall 2007/19/-64), and Olfr soid, asi "turn (tr/intr.)" (see Schumacher 2004/602-7) is perhaps better replaced by a root-accented "nish₁₀-the- (see also Lehrman 1981;26) and 1998/230 on root accentuation in the Hittle contact verb).

"E g. by Lazzeroni (1978-145-7)

¹¹As for forms like γκάφω and γλύφω, see the quite different analyses in LIVⁿ 187 and 190 already hinted at above

'On alieged esigns 'tell (of)' see Hackstein 1997:33-4-

the PIE root *Beus- 'taste, enjoy', Schumacher himself (2004.359) was strongly opposed to reconstructing a PIE present stem *flus-é/ó- for the following reason: "Theoretisch könnte urkelt. *-qus-e/o- mit and. jusäte 'Gefallen finden an etw., mogen' eine Gleichung bilden. Jedoch ist letzteres erst nachrigvedisch . . . , weswegen urkelt *-guselo- und nachrigvedisch jusäte als unabhangige Bildungen zu betrachten sind."25 As a matter of fact, the figures for RV pres(ent) ind(icative) forms from pusá- vs. other RV forms from justi- amount to 0:116 (with only 5 out of the 116 forms containing the augment). However, within the Rigveda at least the zero-grade thematic root presents made from roots with obvious punctual verbal character and/or with zero-grade aorist forms beside them show a rather similar behavior,26 resulting in a grand total of 48 pres. ind. forms vs. 29927 other forms (60 being augmented). 28 Therefore, one is inclined to apply Schumacher's diachronic analysis of justi- to all of these tudati-presents proper. This would imply that the tudáts-presents proper of Indo-Iranian were not inherited from PIE at all and still did not exist in Very Early Proto-Indo-Iranian, but came into being later within the history of Indo-Iranian as a consequence of reinterpreting what were originally agrist stems as present stems -or at least of treating old aorist stems like present stems, so that the old aorist stems could finally be provided with pres. ind. endings. This is exactly the kind of morphological process for which I coined the term "tēzzi principle" in Malzahn 2010:267-8.

As can be gleaned from the introductory chapter on the history of scholarship in Hill 2007, solutions via the "text principle" (assunt la lettre) have been put forth before, first by Ernst Leumann ("Ursache 1st, dass in werkauf der RgVedzeit zu thematischen aoristformen ein präsentischer indicativ (nushr) hinzugebildet wurde, der mit jenen zusammen ein neues präsens-system zu bilden anfing"; 1897;387). Betwann was appearently later followed by Gonda (1902;221–4), who made the additional

¹⁴ See Mendez Dosuna 1985 410 n. 13, 412 n. 14 with references.

[&]quot;See also Schumacher 2004 37. "Ein Teil.. könnte einzelsprachlich aus Wurzelaoristen abgeleitet sein (..., " aus-tio-, ...)."

[&]quot;"These are rule 'stang's or, lapide 'fourl, slang' or, hadas' tear, pull down's 14 augmented form), handarpunh runo' or, games' greet' or, tapide 'push's 14, tabel 'stang' or, d. dddes' "bound' or, dadd: 'pound' or, rabble 'scarch' or, rable 'pull down's 12, mysh' breesh' as 19, or augmented forms), mysh' pound' or; tapide 'pull down's 19, a ugamented forms, mysh' trong or, more or, rable 'stanesh' or, rable 'pull down's 19, mysh' competent or rable 'stanesh' or, rable 'pull down's 19, or augmented forms, mysh' trong own or or, rable 'rule or stanesh' or, for augmented forms, mysh' trong own or or or and trong trong are more or and trong trong are more or and trong trong are more or and trong trong are more or and trong trong are more or and trong trong are more or and trong trong are more of trong, mysh' trong own or and trong trong are more of trong, mysh' trong own or and trong trong are more or and trong trong are trong are more or and trong trong are trong are trong are more or and trong are trong a

⁴Or rather 48 vs. 415, if one includes the 116 non-pres, and forms made from justin, which one is certainly

[&]quot;As for the rest of the RVs zero grade themans most presents, the percentage of the piecs, and, forms to the pieces a be higher, as becomes evender from a grand total of again at a press, and, forms us only 11 cms. The figures for 'pase are even as high as 12 to, as for the other presents, the respective figures are and 'bend' 10, kind' 'pour out, spread '12, kind' 'diven (futrows), plow' to 4, kind' 'liment' 1, 7, kind's 'big' 17, righter 16, 24, or 4, kind's 19, or 47, big tongether 11, kind's 'promote, most or 15, kinds' -from eval poly, quert' o 2, raise 'tou' 114, and and "prompt, goad' 6:22. These figures are again based on the forms and attentations as indicated in Hall accor.

³⁹ Sec on this approach Hill 2007:8-11.

suggestion that the "development of these pres. indic. may... be mainly due to the tendency to create indicatives expressing the psychological present beside forms with secondary endings which in accordance with the meanings of the root concerned were more—in 'aoristic' use—or less—in 'presentic' use—exclusively indicative of the culmination points of the processes." ^{pig}

To be sure, the thematic aonst seems to be a young morphological category itself, as was already suggested by scholars like Thurneysen and Meillet. For this reason, Lazzeroni (1978,1) see also Lazzeroni (1973,0) somewhat modified the views of Leumann and Gonda by assuming that the thematic root aorists and the tuddit-presents were parallel transformations of athematic root aorists (at least manily)11 based on thematic-looking active 3pl. forms. 13 My impression is that Lazzeroni did not want to rule out the possibility that both transformation processes had already begun in

Late PIE; 34 this would be fully in line with his claim that PIE already had a thematiclooking athematic active 3pl. ending variant *-ont(i) alongside *-ent(s).55

However, as has already been pointed out by some authors, especially Hollifield (1977:57-83 with references) and Villanueva Svensson (2012:41 with references), what are descriptively active thematic root aorist forms of Indo-Iranian, Greek, and Slavic are often found alongside middle present and/or middle root aorist forms of the same meaning and/or have anticausative semantics. Therefore they are best thought of as based on formerly athematic 1985, "middle" forms in PIE *e > *et that were reunterpreted as 1985, active forms of thematic formations. *Pow if Lazzeron (1978:143) was undeed correct in claiming that "la sesta classe indiana... nasce and Paoristo tematico, traendo origine dalle stresse vicende che hanno generato quest'ultimo," the tudditipresents proper should rather be regarded as based on 385, forms in *eti that had been formed to originally 385, athematic "middle" so aroit forms in *et si the trēzes principle. Since the "middle" ending *e may have had a varant *et already in PIE times, one cannot exclude on purely morphological grounds that tudditi-presents proper existed already in PIE as well.

The real problem with explaining ruddst-presents proper via the tiest principle is that one expects this principle to have been applied only in IE languages that did not keep distinct present stems/imperfects and aorist stems/aorists, whereas at least according to the view of the Erlangen and Freiburg Schools, (Late) PIE was an aspect language of the very same kind as Ancient Greek, ³⁸ and did keep distinct present

¹⁰ Gonda 1962 134. Although I confess that I full to undenstand Gonda's reasoning, I do not agree with the objection made by Hill (2007):a): "Gigen dose be ridibrung spenchs allerdings entschieden de Taisneh, a Aontie mit andere Mophologies, 128. die Viz-aontse dorf die 4-shonste, in Vedicken nie schundare Ind.- Formen der "psychological present" entwicklen." As a marter of fart, in the language of the RV there existed quite a lot of themsone toor presents right from the start, which cannot be ado of the (recessives) alternance roor presents gift from the start, which cannot be ado of the (recessives) alternance roor presents and the (actually very few) - presents; therefore, the application of the "triats' principle" to attendance to the present of the pr

[&]quot;Who based himself (just as Gonda evidently did, 1963-233) on the figures for RVIc instances of zerograde thematic root formations as given by Renou (1933-333); since these include all of the RV forms of what were descriptively simple thematic acrists as well, they can hardly be called significant, as was already noted by Hill (2007):13).

In a time spannon. — pub essere state formin od a principio atmo dell'aonisio atennatico ore la vocale appartenen sal sufficione omi. e dall'Ostromo ("Jazzeroni systasi)". Fisial iragiono origine. . . dalla serie apersona plurale atmis dell'aorisio radicale e, forse, anche dalle forme nominale modali" (Lazzeroni systa:14). According io Bammeberger (1984:14). all off the zero-gastic themate root presents and aurists event in any branch may have been based on participles in "4ms- from an athemate root stem ("Potes Erfaltamos in any branch may have been based on participles in "4ms- from an athemate root stem ("Potes Erfaltamos at an ichi fili al delivounderatigne themateren prosenten and adoristic in den da, Sprachen amendata"; this scholar was fully convinced "dafi Prasentene die Type Tilk-6- der mologermanischen Grundsprache wohl kaum zugeschrieben werden konnen".

³³ According to Lazzeroni (1978:138-9), this analysis is confirmed by, and is able to account for, the fact that "nell'aoristo tematico vedico il medio è più raro che in ogni altra formazione," because in the middle he argues the 3pl. ending variant -ata prevailed over thematic-looking -anta, so that the middle 3pl. forms were less and to trigger thematizations; similarly Lazzeroni 1088; 141-2; "Al medio... la desinenza della 3 pl era -nto "There exist, however, some media tantum among the thematic agrists of Vedic and Greek that are simply left unexplained by Lazzeroni. Evidently the starting point for these media tantum must have been apl. forms in -dnta and *-ento, respectively. In Greek, e.g. an athematic apl. *(e)pit*-ento was capable of being reanalyzed as a likewise athematic *(e)psithe-nto on the model of athematic (e)berro, and a new athematic 3sg. (è)mi8ero coined on the model of athematic 35g. (è)8fro could have been reinterpreted as an (-e/o-)thematic form, thereby triggering the creation of a new (-e/o-)thematic 3pl. (e)mborn. Quite possibly 3pl. forms such as evenero, anietaro, embiaro found in the manuscript tradition of Herodotus (see Kuhner 1892 77) were genume forms of Herodotus' own vernacular that owed their -fare to a substitution of -vre by -are, which would imply that formerly there had, in fact, existed forms of the *(e)pith-ento type in Greek. Imperfect forms of the ane-padéaro type likewise transmitted in the mss. of Herodotus (see Kuhner 1892:77) may simply have been based on the model of agrist forms such as explicans. On the middle forms of the Vedic ruditi-presents see Lazzeroni 1988-142

⁴⁴ But note Lazzerum 1997;42 ("Gli indicativi cul tema a grado ndotto, cosiddetti della VI classe sanscrita (sscr. nulam, gr. γράφω) nascono, verosimilmente, da sviluppi monoglottici: difficilmente, in due lingue indocuropee, proveremmo due verb di queste tipo formata fallo stesso etimo").

[&]quot;See Lazzeroni 1978:137-8, 1988:141-5, 1997.50, 2010:319.

[&]quot;C.F. Hollifield 1977:76: "It can., be concluded that the themans corst as a type has ongunated from use of the lands buryone that on again model conding so or as a thematic vowed, by addition of ε, an active paradigm being built up after the third singular," similarly Villanews Svenson 2014.1. "According a care the paradigm being built up after the third singular," similarly Villanews Svenson 2014.1. "According at a care and the singular, and the singular, and the singular and the exchanged and act. "σ₁..., a vicew supported by the frequent "modific functional and/or paradigmace profile of thematics on sonsses..." Now that the rainty of middle forms in thematic construct and the sealsy oplainted by the fact that generally speaking pag, forms are less marked, and therefore more likely to function as a starting point for thematizations that pagle forms.

[&]quot;This despite the fact that, to judge from I follfields his (1977:100-11) and the treatment in Hall 2007, there were no obvoics correlation of active forms of findo-Imania madeling-presents proper with what once might have been maddle forms of other verbal stems from the same roots, with the possible exceptions of the active zero-grade thematic agreement acritis admits and apprise, which may be analyzed as argumated the renate cost asortise based on 1856. "Modelle" forms in "A.I. The situation is different in Cellis, where "# '#de-fo-'flielden, uberflielden," " "due-fo- 'sich losen," """188-46" "dreben" [tr. /intr. / M. M.] " and "* and-fo- fallen" all have ancessans we semantes, to judge from the centrum in Schumacher 2004-491-4, 494, 69-7, 644-69.

[&]quot;This view is coulomly also shared by Jasanoff (2005);), who assumes explicitly a "loss of the imperfect board sdainction in Phiros-Chardshing," here are slop, of course, scholars used in Serinack who assume that there was no such distriction in PIEs before the branching off of Proto-Anatolian, but even Strink agons that within this very early kind of Proto-Indo-European, perent from "such as "g" da, is "is lating a step", were impossible and never coned, because their punctative root meaning ("vehal character") and the function of the present errare excluded each other "("Strauk 1994;46 = 1-05)(100)" To be sure, even quite function of the present errare excluded each other "("Strauk 1994;46 = 1-05)(100)" To be sure, even quite

stems and aonst stems both morphologically and semanto-syntactically. *P Therefore, interpreting the tuddit presents proper in the way basically suggested by Leumann, Gonda, and Lazzeroni seems to exclude any formation of tuddit-presents proper already in (Laz) PIE.

It is at least possible to test the Leumann Gonda Lazzeroni hypothesis; if it is correct that with respect to aspect Ancient Greek preserved the Late PIE state of affairs, and at least Very Early Proto-Indo-Iranian still behaved exactly like Ancient Greek, for this hypothesis will predict that—in contrast to the other branches. —neither Ancient Greek nor Very Early Proto-Indo-Iranian had any tudditi-presents proper at all. As a matter of fact, this prediction is borne out. As has already been pointed out above, there is no good evidence for tuddit-presents proper in Ancient Greek at all, and extrapolating from the RV and the AV evidence suggests that the number of present indicative forms from tuddit-presents proper must have been practically zero in Very Early Proto-Indo-Iranian. Accordingly, what is left as evidence for tuddit-presents proper comes from branches in which the tiese principle could have been applied easily—mostly from Celtic, Germanic, 19 Baltic, and Slavic. 19 Note that according to Villanueva Svensson (2012:40), the thematic acrist is best assumed to have been quite alive not only in (Proto-)Slavic, but in the whole of "northern Indo-European," i.e. in Proto-Germanne and Proto-Baltic as well.

To sum up, I think it likely that zero-grade thematic root presents from roots with punctual verbal character (which 1 called tuddit-presents proper) still did not exist in PIE, but were created independently and separately via the têzzi principle on the basis of thematic-looking originally athematic 38g. zero-grade aorists in *zer within the histories of most of the branches that had abandoned the original PIE aspect

recently some scholars have not hesitated to reconstruct presents such as *Mo-ma, see Szemerényi 1990:346-7 with references.

PIn Ancient Greda, aonist imperativos and participles are used differently from present imperativos and participles, see e.g. Bakker 1960 and Ruighl 2000. On the other hand, Vedec was no longer an aspect language (as per Ticthy 1997), nor was Old Iranian (see Ticthy 1997), nor was Old Iranian (see Ticthy 1997), nor was Old Iranian (see Ticthy 1997), nor was Old Iranian (see Ticthy 1997), nor was Old Iranian (see Ticthy 1997), nor was Old Iranian (see Ticthy 1997), see "west school indoirismsche Sonder-envicktung"). Nore in addition that the reduplicated on-called "cassassive" await of Old Irania (see Ticthy 1997), and that the Vedic 1981, nopopilar form andalatil "intilated (right; Ticthy; See Son Grom an equation with the Greek arms from "Fegs "hyporotegic (to be att)".

"As was evidently (implicitly) claimed by Hoffmann 1967.277 ("Als Hypothesis eci...aufgestellt, daß Imperfekt und Ind.Aor. in ihren ursprunghelten, d. h. dem griechischen Gebrauch entsprechenden Funktionen prevedisch folgendermäßen...versellt waren...

"Including Preors Slavic, the aspect system of which may not even be based on the inherited PIE aspect system at all, see give the discussions and references in Stage 1944.4—3 and Searchesty 1950;19-44. Note in addition that according to received opinion the 2 and 38, forms of the Slavic acoustic derive from PIE and majorital forms distributionally (see a.g. Stage 1942-04.), and that some Slavic themsale acoust "communicational interfaces" as a whole, as per Villanueva Svensson 2012-40. (On the 2014th of Slavic, see most recently Ackerman 2014).

4'Of course the number of Germanic examples would increase if one were still willing to derive the likeway type presents from zero-grade thematic root presents with an original root vowel *-si- On this formation, see most recentity Pertidon 2011.

4) As far as Hittite is concerned, the alleged examples of zero-grade thematic root presents have now been analyzed in a completely different way by Klockhorst (2008/408-10, 798).

system (preserved in Ancient Greek only). Granted that in PIE there existed no or just a few thematic aonsts, the reinterpretation of thematic-looking aorist forms as imperfect/present-stem forms can be considered a quite plausible process for such languages.

Abbreviations

LIV² = Lexikon der indogermanischen Verben: Die Wurzeln und ihre Primarstammbildungen. ed. Martin Kummel and Helmut Rix, Wiesbaden: Reichert, 2001.

References

- Ackermann, Katsiaryna. 2014. Die Vorgeschiehte des slavsschen Aoristystems mit der kommentierten Belegsammlung der Aoristformen und Formen des präteritalen passiven Partiesioiums im Altkirchenslavsschen. Leiden: Brill.
- Bakker, Willem Frederik. 1966. The Greek Imperative: An Investigation into the Aspectual Differences between the Present and Aorist Imperatives in Greek Prayer from Homer up to the Present Day. Amsterdam: Hakkert.
- Bammesberger, Alfred. 1984. "Die urgermanischen Aoristpräsentien und ihre indogermanischen Grundlagen." In Das Germanische und die Rekonstruktion der Indogermanischen Grundsprache: Akten des Freiburger Kolloquiums der Indogermanischen Gesellschaft, ed. Jürgen Untermann and Bela Brogyanyi, 1–22. Diskussion 22–4. Amsterdam: Benjamins.
- Beckes, Robert S. P. 2011. Comparative Indo-European Linguistics: An Introduction. 2nd edition, revised and corrected by Michiel de Vaan. Amsterdam: Benjamins.
- Brugmann, Karl. 1916. Vergleichende Laut-, Stammholdungs- und Fleciouslehre nehn Lebre vom Gebrauch der Worsformen der indigermanischen Sprachen. 2nd cd. Vol. 2, Lehre von den Worsformen und ihrem Gebrauch. Part 3, Vorbenerkungen. Verbale Komposita. Augment. Reduplizierte Verbalbildungen. Die Tempustamme im allgemeinen. Prasens und starber Aorist. Die s-Aoriste. Das Ferfelt und sein Augmenttempus. ... Strassburg: Trübner.
- Dahl, Eystein. 2005. "Polymorphic thematic root presents in Vedic and the origin of the thematic conjugation." In Haptachhaptaitii: Fastschrift for Fridnk Thordaron On the Occasion of His 77th Burthday, ed. Dag Haug and Eirik Welo, 57–72. Oslo: Novus.
- Fortson, Benjamin W. IV. 2010. Indo-European Language and Culture: An Introduction and edition. Malden: Wiley-Blackwell.
- García Ramón, J. L. 2014. "On polymorphic presents in the Rgweda Reduplication and 'Aktionsart'." In Vedic and Sanskrit Historical Linguistics, ed. Jarcd Klein and Elizabeth Tucker, 45–78. Delhi; Motilal Banarsidass.

- Gonda, Jan. 1962. The Aspectual Function of the Regredic Present and Aorist. The Hague:
- Hackstein, Olav. 1997. "Probleme der homerischen Formenlehre I: ἐνίψω β 137, ἐνίψει H 447, λ 148 und die Etymologie von gr. ἔννεπε, ἐνίστω/ἐνίπτω und (alt)lat. inseze, tnqust." Munchener Studien zur Sprachwissenschaft 57:10–46.
- Hill, Eugen. 2007. Die Aorist-Präsentien des Indoiranischen: Untersuchungen zur Morphologie und Semantik einer Präsensklasse. Bremen: Hempen.
- Hoffmann, Karl. 1967. Der Injunktiv im Veda: Eine synchronische Funktionsuntersuchung Heidelberg: Winter.
- Hollifield, Patrick. 1977. "On the system of conjugation in Proto-Indo-European." Ph.D. diss., Harvard University.
- Jamison, Stephanie W. 2012. Review of Hill 2007. Indo-Iranian Journal 55:280-2.
- Jasanoff, Jay H. 2003. Hittite and the Indo-European Verb. Oxford: Oxford University Press.
- Klockhorst, Alwin. 2008. Etymological Dictionary of the Hittite Inherited Lexicon. Leiden. Brill.
- Kühner, Raphael. 1892. Aufubrliche Grammatik der griechischen Sprache. Part 1: Elementar- und Formenlehre, vol. 2. 3rd ed. revised by Friedrich Blass. Hannover: Hahn.
- Lazzeroni, Romano. 1978. "Fra glottogonia e storia: i verbi sanscriti della VI classe." Studi e Saggi Linguistici 18:129–48.
- . 1988. "Gli ottavi vedici del tipo gaméma e le forme modali autonome indoeuropee." Studi e Saggi Linguistici 27:123-50.
- 2010. "Il percorso di un mutamento: coniugazione tematica e semitematica nelle lingue indocuropee." In Quae omnia bella devoratis: Studi in memoria di Edoardo Vinuic, ed. Roberto Ajello et al., 37-20, Pisas ET-37-20. Pisas ET-37-20.
- 2014. "Divagazioni sul comparativo indocuropeo." In ΦΙΛΟΙΝ: Scritti in enere di Mario Enrietti e Renato Genáre, cd. Marta Muscariello = 'Aλeξάνδρεια/Alessanária 6-7 [2012-3]:265-75. Alessandria: Orso.
- Lehrman, Alexander. 1985. "Simple thematic imperfectives in Anatolian and Indo-European." Ph.D. chss., Yale University.
- . 1993. "Hittite sparrs- 'trample' and Vedic sphurate 'kick'." Die Spruche 35:131-2.
- 1998. Indo-Hittste Redux: Studies in Anatolian and Indo-European Verb Morphology. Moscow: Paleograph.
- Leumann, Ernst. 1897. "Die herkunft der sechsten präsensklasse im Indischen." Zeitschrift für vergleuhende Sprachforschung 34:587–8.
- Leumann, Manu. 1962. "Der altindische kausative Aorist ajtjanat." In Indological Studies in Honor of W. Norman Brown, ed. Ernest Bender, 152–9. New Haven: American Oriental Society

- Malzahn, Melanic. 2010. The Tocharian Verbal System. Leiden: Brill.
- Méndez Dosuna, Julián. 1985. Los dialectos dorios del Noroeste: Gramática y estudio dialectal. Salamanca: Ediciones Universidad de Salamanca.
- Oettinger, Norbert. 1979. Die Stammbildung des hethstischen Verbums. Nuremberg: Carl.
- Osthoff, H. 1882. "Ueber aoristpraesens und imperfectpraesens." Beitrage zur Geschichte der deutschen Sprache und Literatur 8:287-311.
- Perridon, Harry. 2011. "Long & in Germanic." Amsterdamer Beitrage zur alteren Germanstik 67:211-23.
- Pooth, Roland, 2009. "Der urindogermanische Progressiv: Zur Vorgeschichte des urindoiranischen, altgriechischen und herhitischen Tempus- und Aspektsystem [sic] I." In Protolanguage and Prehistory: Akten der XII. Fachtagung der Indogermanischen Gesellschaft, ed. Rosemarie Lühr and Sabine Ziegler, 381–406. Wiesbaden: Reichert.
- Renou, Louis. 1925. "Le type védique tudáti." In Mélanges linguistiques offerts à M. J. Vendryes par ses amis et ses élèves, 309-16. Paris: Champion.
- Ruijgh, C. J. 2000. "A propos de λάθε βιώσας: la valeur de l'impératif aoriste." Hyperboreus 6:2:325-43.
- Schumacher, Stefan, 2004. Die keltischen Primärrerben: Ein vergleichendes, esymologisehes und morphologisches Lexikon. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- 2012. "Mittelkymrisch trn, trus, truss, truss, truss, truss, altrisch trd und Verwandtes." In Irunisisische und indogermanistische Beitrüge in memoriam Jochem Schindler, ed. Velizar Sadovski and David Stifter, 361–75. Vienna: Verlag der Österreichischen Akademie der Wissenschaften.
- Scidestachts, Herman. 2001. Études de morphologie historique du verbe lasin et indoeuropéen. Louvain: Pecters.
- Stang, Chr. S. 1942. Das slavische und baltische Verbum. Oslo: Dybwad.
- Strunk, Klaus. 1994. "Relative chronology and Indo-European verb-system: The case of present- and agrist-stems." Journal of Indo-European Studies 22:417-34.
- 2005, Kleine Schriften. Ed. Heinrich Hettrich et al. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Szemerényi, Oswald. 1990. Einführung in die vergleichende Sprachmusenschaft. 4th ed. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Tichy, Eva. 1997. "Vom indogermanischen Tempus/Aspekt-System zum vedischen Zeitstufensystem." In Berthold Delbruck y la sunavis indoeuropea hoy: Actas del Coloquio de la Indogermanische Gesellschaft Madrid, 21–24 de septiembre de 1994, ed. Emilio Crespo and José Luis García Ramón, 589–609. Madrid: UAM / Wiesbaden. Reichert.
- Tremblay, Xavier. 2009. "Die thematischen Wurzelpräsentia im Hethitischen: Die indogermanischen Konjugationen im Anatolischen I." In Protolanguage and

Prehistory Akten der XII. Fachtagung der Indogermanischen Gesellschaft, ed. Rosemarie Luhr and Sabine Ziegler, 478–512. Wiesbaden: Reichert.

Villanueva Svensson, Miguel. 2012. "Anticausative-inchoative verbs in the northern Indo-European languages." Historische Sprachforschung 124:33-58.

Vine, Brent. 2008. "On the etymology of Latin tranquillus 'calm'." International Journal of Diachronic Linguistics and Linguistic Reconstruction 5:1–24.

Watkıns, Calvert. 1991. "Latin tarentum Accas, the ludi Sacculares, and Indo-European eschatology." In Language Typology 1988: Typologucal Models in Reconstruction, ed. Winfred P. Lehmann and Helen-Jo Jakusz Hewitt, 135–47. Amsterdam: Benjamins.

The Case of the Agent in Anatolian and Proto-Indo-European

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It is a pleasure and an honor to join in this well-deserved tribute to Stephanie Jamison, a friend and colleague of long standing. I offer her as a modest token of respect and esteem the following reexamination of a topic that much interested both of us at the start of our respective careers more than three decades ago.

Our honorand argued cogendy in two articles of 1979 that contrary to previous claims the ordinary case of the agent with the passive in Vedic and surely in Proto-Indo-European was the instrumental. Unfortunately, her findings have generally been ignored or wrongly rejected. Among recent handbooks that include discussion of morphosyntax Tichy (2000:16) does not acknowledge agency as a function of the PIE instrumental, nor does Matthias Fritz apud Meier-Brugger 2010:404-5. A happy exception is Fortson (2010:13), who litss it alongside means and accompaniment. Explicit responses to Jamison's claims have mossly been highly skeptical (Luraghi 1986:32-3) or negative (Strunk 1991:85-6). Hettrich (1990:103) does cautiously attribute to Proto-Indo-European the use of the instrumental to mark agency, but only as one of the cases employed in that function (see also Hettrich 2014:11)). Since none of the works cited treat the Hittite evidence in a remotely sansfactory manner, while making some quite dubious assumptions regarding the expression of agency elsewhere, it seems useful to reexamine the topic.

I The expression of agency with the passive in Hittite

Both Hettrich (1990:79–80) and Strunk (1991:84) properly call into question the argument by Starke (1977:101-4) against the use of the instrumental to mark the agent in Old Hittite on the grounds that agency was expressed by a circumlocution in the hand of X. First of all, Strunk (1991:86–7) correctly refutes Starke's claim (1977:104–5) that the instrumental is not used in Old Hittite to mark accompaniment with animate referents, citing the use of the instrumental panguarit in the Anitta text KBO 3.2 Ro 5 (OH/OS) to mean 'with mass(ed troops)' (see for the full argumentation Melchert

¹I use the standard sigla OH, MH, and NH to refer to compositions from Old, Middle, and New Hittite and OS, MS, and NS to indicate the date of manuscripts from the respective periods

1977:164—5). For reasons given below, the comitative use of the instrumental in the NS copies of the Laws \$190 (KB0 6.26 iii 29 and KUB 39.34 iv 11) must also reflect genuine Old Hittie usage: takhusilan GIDIM-it tiets! / nkhantit tianszi "If he has/they have intercourse with a dead person..."

As per Hettrich (1990:80), the absence thus far of examples of the instrumental of agent in Old Hittite manuscripts may easily be due to chance. Nevertheless, as we have seen, Strunk (1991:86) still concludes that the instrumental of agent (with animate referents) is an innovation of New Hittite. Luraght (1986:52–3, n. 8) severely criticizes Jamison for ignoring the relative chronology of the Hittite texts.

It is in fact Luraghi and Strunk who egregiously ignore the relative chronology of the use of the instrumental and the ablative to mark agency in Hittite. As I demonstrated in my dissertation of 1977, the ablative progressively replaces the instrumental in all functions (means, accompaniment, and agency) beginning already in the Late Middle Hittite period. Not only are instances of the instrumental in genuine New Hittite compositions reduced almost entirely to a few set expressions (see Melchert 1977:371–3), but already in Late Middle Hittite copies of older compositions we find hypercorrect use of the instrumental in ablatival function, that is, to mark separation, a function that never genuinely existed as an stage of Hittite (Melchert por7242).

Therefore, when we find in the titulature of a decree of the New Hittite king Hattušili III (KBo 6.28 Ro 4-5) the expression \$A LUGAL van Kušiar siūnit kļanešia ndaš NUMUN-aš "descendant (lit. seed) of the King of Kuššar recognized (favored) by the god(s)," we must conclude that this usage is an archaism reflecting Old Hittite usage. It cannot possibly reflect an innovation, since a New Hittite expression could only stand in the productive ablative. The antiquity of the construction is confirmed by the full phonetic spelling of 'god' and the mention of the city of Kuššar, associated with the beginnings of the Hittite kingdom. The entire phrase of the King of Kuššar recognized by the god(s)' is surely borrowed from an old composition. Just like other uses of the instrumental in New Hittite compositions, siunit kanessant- is a fixed expression. Given this certain example, we may also take seriously the one in an NS copy of an Old Hittite text, the Hittite version of the sar tamhari king of battle' narrative, KBo 22.6 1 24: GISTUKUL. HI.A-is: wa: sta siunit piyantes "Weapons (arc) given to you by the god(s)" (cited by Hettrich 1990:78). I must stress, however, that this text as it comes down to us shows clear signs of conscious archaizing (see Ricken 2001). This example alone would thus not have probative value.

I must insist on the methodological principle that in judging whether a given feature is an archaism or an innovation one must not apply the relative chronology of the attestations in a blind and mechanical fashion. It is not rare that a later manuscript of an older composition nevertheless preserves genuine archaisms. While arguing for the extant Hirt. Sur tamhjari as a clear case of conscious archaizing, Rieken (2001;579-80) correctly affirms that the text also contains much correct Old Hittite grammar. In deciding which features are genuine archaisms and which are not, one must treat each case separately and in terms of whether a given usage can be motivated as an innoration. Not only the evidence that the instrumental was a moribund category in New Hittite replaced in all uses by the ablative, but also the context and orthography of the example of the instrumental of agent in the decree of Hattuslii III argue decisively that it must be an archaism reflecting a feature of Old Hittite grammar.

Luraghi (1986:52-3) bases her skepticism about reconstruction of the instrumental or any case as the marker of agency in Proto-Indo-European on the premise that such a reconstruction depends on reconstruction of a passive for the proto-language, which she regards as highly doubeful. However, use of the finite middle (mediopassive) in a passive sense is attested in all the oldest attested Indo-European languages, including Old Hittite (see Neu 1968:113). There seems little basis for doubting that this use of the middle is of PIE date. However, Jamison (1979a:1201 and passim) emphasizes that three-fourths of the Vedic occurrences of the passive plus expressed agent involve past participles, and the majority of the remaining examples occur with present mediopassive participles. Hettrich (1990:80) correctly stresses that Hittite shows a similar preponderance of expressed agent with past participles and elsewhere (1990:60-1) points out that Latin and Tocharian share this feature. He correctly concludes that this matching peculiarity in distribution is unlikely to be due to chance and is surely inherited, probably alonguide the more rarely realized possibility of expressed agent with the finite mediopassive.

Hettrich (1990:61 n. 18) does note further, however, that whereas in Vedic the expressed agent with the past participle usually does not form a predicate (see Jamison 1979a:201-3), in Hittite most instances of expressed agent plus past participle are precisely predicatival in clauses with expressed or unexpressed copula. In the restricted but nevertheless fairly large corpus of assured New Hittite compositions the ratio is ten to one, and it can scarcely be accidental that the one attributive example (KBo 4.12 Ro 8-9) involves the expression kanesiant- 'recognized, favored': "Middannamüwas: ma IŠTU ABI: YA kanessanza UN-aš ēsta "Middannamuwa was a person recognized/ favored by my father." As we will see below, the distribution of expressed agent with the past participle in Hieroglyphic Luvian agrees rather with that in Vedic, showing almost entirely attributive instead of predicatival syntax. Since all of the Luvian attributive examples involve its functional equivalent of Hitt. kanelsant-, it is conceivable that Anatolian inherited predominantly the attributive type, which was then extended as an innovation to predicatival use. I find it far likelier that the different ratios of attributive versus predicatival past participles with expressed agent reflect rather the very different textual genres in the respective corpora and must share with Hettrich (1990:61 ft. 18) skepticism about the claim of Jamison (1979a 204) that the

²Reading and interpretation thus with Hoffner 1997:150 and 225, contra Melchert 1977:247-8.

¹As argued in Melchert 2013 161-2 n. 12, the MS copy KBo 39.8 of the Maltingar itual is rife with innovations as well as errors and unreal usages, while the NS copies often preserve the more archaic usage of the archetype

preponderance of attributive examples in Vedic reflects "general linguistic considerations." As per Hetrich, the more general preponderance of expressed agents with participles is an inherited feature from Proto-Indo-European. I will return to this point in my discussion of the overall issue of which case(s) Proto-Indo-European used to express the agent with the passive.

2 The expression of agency with the passive in Luvian

I know of no examples of expressed agent with a passive in the quite limited corpus of Cunciform Luvian incantations embedded in rituals of Kizzuwatna attested in Hattuša (for their language as representing a koineized Luvian dialect of Kizzuwatna see Yakubovich 2010:Ch. 1, esp. 68-73). In Hieroglyphic Luvian texts of the period after the Hittite Empire I have identified eleven examples. Their absence in the few and imperfectly understood texts from the Hittite Empire period may easily be due to chance. Only one attestation is predicatival, while five are attributive and five others appositional to nouns, and it can hardly be accidental that nine of the last ten involve the Luvian verb aza-. This verb is usually translated as 'love', but as shown by Gérard (2004), the verb is used exclusively of an action taken by a god or the gods towards a human. Furthermore, the verb regularly takes as a determinative LITUUS, which otherwise qualifies verbs of vision and perception (also once OCULUS 'eye'). These facts refute all attempts to connect HLuv. aga- with Hitt. assiya- 'be dear, beloved' (including my own in Melchert 1987:200). A transitive verb expressing divine favor and marked with a determinative that refers to sight shows that we are dealing with the same semantic development as in Hitt. kanesi- 'recognize, have regard for, favor'. Its etymology may be left for another occasion, but there can be no doubt that HLuv. DEUS-na/ni-ti d-za-mi- 'favored by the gods' is the direct functional match of Hitt. fiunit kanesiant. 5

In addition to eight examples of the generic 'favored by the gods' we also find one with named deities instead (KARKAMIŠ A15h \$1; Hawkins 2000:130). It is unlikely to be accidental that the one attributive example with a participle other than \$i-xa-mi-'favored' occurs together with it in an expanded rhetorical figure (MARA\$ | \$1h; Hawkins 2000:263): DEUS-ma-si (LITUUS)\$i-xa-mi-si CAPUT-na-si (LITUUS)\$i-xi-mi-si RINES-ma-si (AUDIRE-mi-si REX.si-si" the king favored by the gods, known by the people, famed (lit. heard of) abroad."

We do have one predicatival example comparable to the well-artested Hittite

type (KARAHÖYÜK \$16; Hawkims 2000:290): POCULUM.PES.*9(rREGIO)www.ims-th-'3 URBS-MI-mi-xila lalijiu-har-ma(URBS) FRONS!.*282-p-n/ia(URBS)

zul(wa)-ma-ha(URBS) DOMINUS-ma-ti DARE-mi-zila' Tin the land POCULUM
three cities, Lukarma, Hant...piya, and Zu(wa)maka, (are) given to me by the lord."
In sum, the Hieroglyphuc Luvian evidence confirms that the primary locus of the expressed agent with the passive in Anatolian was, as elsewhere, in syntagms with the
past participle and with the instrumental marking the agent.

3 The expression of agency with the passive in Proto-Indo-European

The Hittire and Luvian evidence unequivocally supports the conclusion of Jamison (1979b:143) and Hettrich (1990:101) that the instrumental case had the role of marking the agent with the passive, primarily with verbal adjectives, in Proto-Indo-European.

Hettrich (1990:64-6 and 2014:114-17) makes a strong case for the use of the dative already in Proto-Indo-European for the agent in deontic contexts with a predicatival verbal noun or adjective, a construction attested in many older Indo-European languages, including Hittite: KUB 6.44 iv 23 (NH) [t(uk:ma) kī ut]tar ŠĀ-ta šiyanna išhiūll-a čid[(u)] "Let this matter be for you to seal in (your) heart and an injunction." However, Hettrich's characterization of such constructions as "passive," including expressly already in Proto-Indo-European (1990:77), is questionable. As my translation of the Hittite and his own translations (1990:64-5) of examples from other languages show, there is no proof that the syntax of such sentences is passive. The mere fact that the patient appears in the nominative of the matrix clause in no way establishes passive syntax. There is much debate about whether Proto-Indo-European had true infinitives, but I know of no serious claim that the PIE infinitive was marked for diathesis (cf. Meier-Brügger 2010:317-8 and Keydana 2013:82 n. 8, with references). Keydana (2013:82 and passim) argues for a syntactic contrast of active and passive in the Vedic infinitive, but not all of his examples for the passive reading are probative. The best evidence for passive syntax of the Vedic infinitive is the occasional use of the instrumental instead of the dative to mark the agent with a predicatival deontic infinitive: RV 7,22,7c tpám nřbhir hávyo višvádhāsi "You are to be summoned by men everywhere" (cited by Hettrich 1990:69; see also RV 7.33.8 cited by Keydana 2013;159). However, Hettrich himself (1990:69 and 77) argues persuasively that the use of the instrumental in the deontic construction is an innovation of Indo-Iranian.6 It is thus an entirely open question whether the dative marked the agent with the passive in Proto-Indo-European.

Hettrich (1990:101 and 2014:117) asserts that the ablative, genitive, and locative also

While a far more systematic study would be required to demonstrate the role of genre and style, I have a strong impression that both the Vedic hyman and the percolocaturily self-pononising Herneglyphic Livius monumental inscriptions have a fondness for epithetis, while more attain genres of Hutter texts do not. If this impression is correct, the frequent use of past participles as epithets would be motivated, since they allow more possibilities for further defaboration (including expressed against) than ordinary adjectives.

³I should add that aza- is also well attested as a finite verb with defines as the subject and a human as the direct object (e.g. KARKAMIS Aria \$7; Hawkins 2000'95), again like its Huttie counterpart knieß-.

[&]quot;The syntax of the Italic gerundive is also surely passive, but the formation is generally held to be an Italic innovation.

marked the agent with the passive in Proto-Indo-European. The degree of validity of this claim varies markedly for each of the three cases named.

The alleged use of the locative to mark agency will not detain us long. First of all, several of the Vedic examples cited by Hettrich (1990:97-8) likely do not involve passives at all: see the plausible alternative analyses of Jamison and Brereton (2014:273, 1121, and 1272) for RV 1.117.11, 8.45.27, and 9.45.4 respectively. More importantly, as Hettrich's own translations show, even in the genuine passive examples from Vedic, Greek, Latin, and Gothic, the locative expresses the locus of the action marked by the passive (predictably almost all of the genuine examples involve plurals and thus groups, which may easily be conceived as occupying spatial domains).7 It is commonplace that participants in real-life situations may play several roles at once. It is always the prerogative of the speaker to choose which role he or she wishes to express explicitly in speech. If the composers of the passages cited chose a locative, then we must conclude that they wished to express the role of the participants as the locus of the action. These examples provide no evidence for the locative case as marking the agent with the passive. A confirmatory argument that the locative did not mark the agent with the passive in Proto-Indo-European or anywhere else comes from the fact that locatives with animate referents that do happen to occur in passive contexts predictably show no special association with past participles, which as both Jamison and Hettrich have shown was the original locus of the expressed agent.

As to the ablative, contra Hettrich 1990:89-6 Hittite cannot be used to support the use of the ablative to mark agency with the passive in Proto-Indo-European. The problem is not the absence of the ablative of separation with animate referents. Whether or not there is an example in an Old Hittite manuscript (see Melchert 1977:158-9 on the crux KBO 3.12 RO 11-3), there is no reason to doubt that such a urage was possible in Old Hittite. In a Middle Hittite manuscript of the Old Hittite composition KBO 21.23 RO 33 we find musw huss "UTU-80" From which Sun-god (do you come)" There is no justificanto for Starke's characterization of the text as "lingere Sprache." There is just one example from a New Hittite composition, KBO 4-3 ii s8-9: [(peran par)]dsyn=zei apiin G[(E,-a)]n ISTU MUNUS-TI [(tziphaf)" He also abstanced (lit.-zai tzipha*) withheld himself) from a woman through that (whole) night before" (see Melchert 1977:348 and Guterbock and Hoffner 1997:303, with references).

However, for pragmatic reasons use of the ablative of separation with animate (especially human) referents would at all times have been exceedingly rare. That this very marginal usage is the source of the ablative of agent in New Hittite as claimed by Hettrich is inherendy implausible. In any case, since all evidence in Hittite and Luvian for use of the ablative to mark the agent comes from grammars in which the ablative had taken over all uses of the instrumental, the principle of coonomy argues that we should take that usage also as deriving from the instrumental. This conclusion is confirmed by the fact that the ablative of agent in New Hittite shows the same strong association with past participles as the instrumental of agent (eleven instances versus only three with the finite passive), while the ablative of separation naturally shows no such correlation at any stage of Hittite. Proof for the ablative of agent must come from elsewhere.

Hettrich (1990:84-92) finds purported evidence for such a use in multiple older Indo-European languages, but none of it is probative. First of all, one cannot infer an original use of the ablative case to mark the agent from such a use of prepositions meaning 'from' plus the ablative. By this reasoning one would derive the modern English use of 'by' to mark the agent with passives from an earlier locative of agent, but this use dating from the 15th century clearly developed from the already existing use to express means, an innovation attested from a much earlier date, not from the original locatival sense of the preposition. The constructions of Old Persian, Armenian. Baltic. Slavic, and Germanic involving various prepositions meaning 'from' are thus no evidence for a PIE ablative of agent. For Latin Hettrich (1990:84) cites an example of the bare ablative with the participle prognatus 'born' and refers the reader to Kühner and Stegmann 1966:375-6 for further "ablatives of agent." In reality, Kühner and Stegmann state unequivocally that the bare ablative with participles such as (g)nātus, genitus, ortus, etc. and finite forms of the verb nasci 'be born' expresses origin, not agency, and that the agent with passive verbs is expressed only by ab plus the ablative, except in poetry and late prose. As already noted by Jamison (1979b:137) and conceded by Hettrich (1990:86-8), all Vedic examples of the ablative with the mediopassive forms of jan-'give birth' can likewise express merely origin. His protest that an ablative of origin is not incompatible with an ablative of agency is beside the point: proof that the ablative marked agency can only come from examples where agency alone is a felicitous interpretation.

The only remaining evidence for the ablative marking agency is the occasional use of the ablative of the first-person plural pronoun in Vedic annde beside instrumental anndabta in passive constructions. Hertrich (1990-189) properly sets asade the examples from deontic contexts, since as discussed above these are clearly secondary, replacing the original dative. He stresses that we are then left with ten examples of the ablative versus only two of the instrumental. However, two of the alleged ablatival examples are with the verb jars, which as already indicated mark origin, nor agency. As per Jamison and Beretron (2041-867), the only alleged case with the first-person singular

This also applies to the alleged examples in deontic contexts. See Jamison and Brereton 2014, 402 and 406 on RV 2.2.3 and 2.4 i respectively, contra Hettrich 1990. 98.

⁸It is true that Mekhert and Octunger (2009) derive both the Old Hinter unstrumental ending (b)² and the abhreviernamental and of Luvan from original PIE abhraval endings, but these had already imminimatible topical peaked instrumental PIE -8², in the same fishion that in Middle and New Hinter the endings (abj(ab) < (6)00 in min replaced the Old Hinter instrumental. Their ulminate derivation offices a page of the architecture for the endings (abj(ab) < (6)00 in min replaced the Old Hinter instrumental. Their ulminate derivation offices are proported for architecture for a great proported for architecture for a great proported for architecture for a great proported for architecture for a great proported for a

^{*}For occurrences of the New Hittite ablative of agent see Melchett 1977 367. A survey of ablatives of separation in OH/OS finds that all 30 examples with full context occur with finite verbs.

ablative mate (RV 6.67.2) may likewise express origin: "this inspired thought from me." of In two instances the ablative amata is most naturally understood as expressing separation: in RV 6.74.3 with the verb 'release' and in 7.34.4 with the verb 'go forth' (Jamison and Brereton 2014.89.5 and 9.36 respectively). Finally, in RV 5.33.1 the ablative may express cause. 'because of us' (Jamison and Brereton 2014.80.5). In sum, we actually have only four instances where the ablative amata is most naturally taken as expressing the agent, against two of instrumental asmabbhis (if we restrict ourselves to the older Family Books, we are left with precisely one of each: ablative in RV 4.41.1 and instrumental in RV 3.62.7). A grand total of only six occurrences makes it quite impossible to determine whether those with the ablative represent an archaism or a marginal innovation. I therefore regard this data as a far too slender basis on which to posit the use of the ablative to mark agency in Proto-Indo-European."

The genitive of agent is attested in Indo-Iranian, Greek, Tocharian, and Lithuanian. In Tocharian the genitive expressing agent is almost exclusively limited to use
with past participles and gerundives (with the latter replacing the lost dairwe): see
Krause and Thomas 1960:88–9 and Carling 2000:10. The same is true of the perlative
(Krause and Thomas 1960:88 and Carling 2000:13), which for reasons given above
may be taken to reflect the similar distribution of the PIE instrumental that it replaced. In Lithuanian, where the genitive is the regular case of the agent, the passive
is formed periphrastically with participles, which may also be taken as reflecting an inherited use of the genitive to mark the agent in the context of passive verbal adjectives
(Hettrich 1990:95). The Greek compound biorbers ('god-given' (also as a personal
name) and the Old Persian "manak artam" construction are cited as further evidence
for an inherited genitive of agency with passive verbal adjectives (see most recently
Lithr 2004:8)

Jamison (1979b:133-43) argues that the patterning of the evidence in the oldest Indo-Iranian and Greek points rather to the genitive of agent as a parallel and independent innovation in each language. Her cogent arguments against the primacy of the genitive of agent with past participles in favor of the instrumental do not, however, preclude that such a use of the genitive goes back to Proto-Indo-European. Hettrich (1900:83 and passim) correctly insists that more than one case can compete in a given function: it is quite clear that the genitive and the perlative both mark the agent synchronically in Tocharian. Nor does the fact that the genitive of agent is not attested in the very oldest Greek and Indo-Iranian texts prove per se that it is an innovation. As stressed above regarding the instrumental of agent in Hittite, the key

question is whether its appearance when it is first found can be plausibly motivated as an innovation or not.

Answering this question very much depends on just how the genitive of agent came about, a thorny question that I cannot adequately address here. I must share the doubts of Hettrich (1990:70-1) that the occurrence of multiple cases to express the patient of certain active verbs can explain the use of the genitive to express the agent of the passive of the same verbs (contra Jamison 1979b:134-5). Nor does this account seem plausible for the genitive of agent with the passive of verbs of speaking. However, Jamison makes a good case for the genitive of agent with past participles arising from syntactic reanalysis of a phrase like RV 10.155.4c hatá indrasya iátravah "Indra's smashed rivals" as "rivals smashed by Indra," based on association with the clearly agentive hatá indrena 'smashed by Indra' (RV 10.108.4d). Compare the similar arguments of Cardona (1970, esp. 8-9) for both Indic and Iranian. Examples such as Eng. God's anointed = the one anointed by God raise the possibility that Greek διόσδοτος is in origin '(the/a) god's given one' The modest extension in lare Vedic of the genitive of agent from participles to finite verbs may merely imitate the similar expansion of the instrumental of agent on a larger scale. I personally cannot judge whether the required reanalysis is trivial enough to have occurred independently in multiple traditions.

4 Conclusion

The instrumental was certainly used to express the agent with the passive in Proto-Indo-European, primarily with passive verbal adjectives, a particular correlation still probustly attested in Vedic, Hittite, and Luvian (and likely also in Tocharian with the perlative). Since passive function of the mediopassive is also of PIE date, we may also suppose that the instrumental was used in the rare instances where the agent was expressed with a finite mediopassive. In deontic constructions the dative marked the agent, but whether such clauses had passive syntax in Proto-Indo-European is an open question. There is no compelling evidence for use of either the locative or the ablative to indicate the agent with a passive in Proto-Indo-European. Whether the genitive of agent existed in Proto-Indo-European or not depends on the plausibility of its appearance in Indo-Iranian, Greck, Tocharian, and Luthuanian being due to parallel and independent innovations.

References

Cardona, George. 1970. "The Indo-Iranian construction mana (mama) kṛtam." Language 46:1-12.

Carling, Gcrd. 2000. Die Funktionen der lokalen Kasus im Tochartschen. Berlin: Mouton de Gruvter.

¹⁰ For a different analysis of mat as expressing agency suppletively for the instrumental see Lühr 2004. 13. "Hetrich's analysis of the ablative use with the first-person pronoun as an archaism (1900-190-1) depends on his claim that use of the instrumental to mark agency began at the lower innamiate end of the agency.

on his claim that use of the instrumental to mark agency began at the lower frantimate end of the agency, herearchy and delt not reach the highest animate position, the fifting person. However, this account of the origin of the instrumental of agency is useful less than assured. For an alternative analysis see Lühr 2004:

- Fortson, Benjamin W. IV. 2010. Indo-European Language and Culture: An Introduction. 2nd ed. Malden: Wiley-Blackwell
- Gérard, Raphael. 2004. "Louvite hiéroglyphique aza- 'aimer'." In Mélanges offerts au Professeur René Labrun, ed. Michel Mazoyer and Olivier Casabonne, vol. 1, 305–23. Parss: L'Harmattan.
- Guterbock, Hans G., and Harry A. Hoffner, Jr. 1997. The Hittite Dictionary of the Oriental Institute of the University of Chicago. Vol. P, fasc. 3. Chicago: The Oriental Institute of the University of Chicago.
- Hawkins, J. David. 2000. Corpus of Hueroglyphic Luwian Inscriptions. Vol. 1: Inscriptions of the Iron Age. Berlin: Mouton de Gruyter.
- Hettrich, Heinrich. 1990. Der Agens in passivischen S\u00e4tzen altindogermanischer Sprachen. G\u00f6ttingen: Vandenhocck & Ruprecht.
- 2014. "Zum Agens in passivischen Sätzen des Rgveda." In Na-mafi-VIR.ZI/A MAGNUS.SCRIBA: Festschrift für Helmut Nowicki zum 70. Geburtstag, ed. Annick Payne and Cyril Brosch, 113-8. Wiesbaden: Harrassowitz.
- Hoffner, Harry A., Jr. 1997. The Laws of the Hitties: A Critical Edition. Leiden: Brill. Jamison, Stephanie W. 1979a. "Remarks on the expression of agency with the passive in Vedic and Indo-European." Zeitschrift für Vergleichende Sprachforschung 93:196—
- . 1979b. "The case of the agent in Indo-European." Die Spruche 25:129-43.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda: The Earliest Religious Poetry of India. New York: Oxford University Press.
- Keydana, Götz. 2013. Infinitive im Rgreda: Formen, Funktion, Diachronie. Leiden: Brill.
- Krause, Wolfgang, and Werner Thomas. 1960. Tocharisches Elementarbuch. Vol. 1: Grammatik. Heidelberg: Winter.
- Kühner, Raphael, and Carl Stegmann. 1966. Ausführliche Grammatik der lateinischen Sprache. Part 2: Satzlehre, vol. t. Hannover: Hahn.
- Lühr, Rosemarie. 2004. "Thematische Rollen und Kasus: Zu Agens und Patiens beim Passiv im Altindischen." Linguistische Arbeitsberichte 81:1–30.
- Luraghi, Silvia. 1986. "On the distribution of the instrumental and agentive markers for human and non-human agents of passive verbs in some Indo-European languages." Indogermanuche Forschungen 91:48–66.
- Meier-Brigger, Michael. 2010. Indogermanische Sprachwissenschaft. 9th ed. Berlin: Mouton de Gruyter.
- Melchert, H. Craig. 1977. "Ablative and instrumental in Hittite." Ph.D. diss., Harvard University. http://linguistics.ucla.edu/people/Melchert/melchertdissertation.pdf.
- To 1987. "PIE velars in Luvian." In Studies in Memory of Warren Congill (1929–1981),
 ed. Calvert Watkins, 182–204. Berlin: de Gruyter.
- . 2013. "Luvian language in 'Luvian' rituals in Hattuša." In Beyond Hatti: A

- Tribute to Gary Beckman, ed. Billie Jean Collins and Piotr Michalowski, 159-72.

 Atlanta: Lockwood.
- Melchert, H. Craig, and Norbert Oettinger. 2009. "Ablativ und Instrumental im Hethitischen und Indogermanischen: Ein Beitrag zur relativen Chronologie." Inamtri Linauistici 32:53-73.
- Neu, Erich. 1968. Das hethitische Medsopassıv und seine indogermanischen Grundlagen. Wiesbaden: Harrassowitz.
- Ricken, Elisabeth. 2001. "Der hethitische sar tambär-Text: Archaisch oder archaisierend?" In Akten des IV. Internationalen Kongresses für Hethitologie, Würzburg, 4.–8. Oktober 1999, ed. Gernot Wilhelm, 576–85. Wiesbaden: Harrassowitz.
- Starke, Frank. 1977. Die Funktionen der dimensionalen Kasus und Adverbien im Althethtischen. Wieshaden: Harrassowitz.
- Strunk, Klaus. 1991. "Syntaktische Bemerkungen zum hethitischen und indogermanischen Instrumental." In Introiekoja Int
- Tichy, Eva. 2000. Indogermanissisches Grundwissen für Studierende sprachwissenschaftlicher Disziplinen. Bremen: Hempen.
- Yakubovich, Ilya. 2010. Sociolinguistics of the Luvian Language. Leiden: Brill.

Šāhs at the Pass of Thermopylae*

ANGELO O. MERCADO

I Introduction

As witnessed by recent comic-book and movie retellings, the Greco-Persian Wars continue to capture the popular imagination. One detail of the war in particular has perhaps gotten more attention from enterrainment-industry professionals than scholars, and that is the Persian-Spartan verbal exchange on the eve of the Battle of Thermopylac, recorded by Herodorus in Book 7 of his Histories. In this paper, I examine Herodorus's etymological figure roble eimêr 'öme, by which he introduces the verbal exchange, and parallels to the Persian boast in the Sab-nama of Ferdowsi. Analysis of these makes Herodorus' report of the repartee doubly "epic": the figure stymological is formulaic in Homer, and the image of arrows huding the sun is a Persian epic formula. The vaunting Persian at Thermopylae was thus likely drawing from Iranian epic, in which Dieneces the Spartan unknowingly participates, but Herodorus recoups his counter-boast for Greek tradition.

2 Herodotus 7.226

To conclude his narration of the Bartle of Thermopylac, Herodonis catalogs the brave men of the fight, foremost of whom was Dieneces the Spartan for his courage and wir in the face of Persian intimidation.

(1) Hdt. 7.226 (tr. de Sélincourt)

[§1] Of all the Sparrans and Thespians who fought so valiantly the most signal proof of courage was given by the Sparran Dieneces. It is said that before the battle he was told by a native of Trachis that, when the Persians shot their arrows, there were so many of them that they hid the sun. [§2] Dieneces, however, quite unmoved by the thought of the strength of the Persian army, merely remarked. "This is pleasant news that the stranger from Trachis brings us: if the Persians hide the sun, we shall have our bartle in the shade." He is said to have left on record other sayings, too, of a similar kind, by which he will be remembered.

The etymological figure' $\pi \delta \theta e \dots e i \pi \theta e \pi e$ is striking. Herodotus uses the verb $e i \pi e \pi e$ on its own in various forms $324.4\times$ and the noun $\tilde{e} \pi e g$ likewise $64\times$ (most frequently in accusative, $32.8\,e$, $2.2\times p$ 1), but the combination is rare, as are $\lambda \dot{e} \gamma e u \dot{e} m \dot{e}$ ($3\times$) and $\tilde{e} \pi e g \lambda \dot{e} \gamma e u \nu$ ($1\times$), in contrast to $\lambda \dot{e} \gamma e u \dot{e} v \dot{e} v \dot{e} v$ ($16\times$) (per TLG; see Hollmann 2000 on $\tilde{e} \pi e e u \dot{e} v \dot{e} v$). Herodotus appears to be memorializing Dienceses with an etymological figure formulaic in Homer ($24\times$ in both epics per TLG; see (2) and (3) on the next page). $\tilde{e} u \dot$

Λόγου eime \bar{v} , \bar{e} meς λέγειv, and λόγου λέγεv are absent from Homer. The examples in (2) show ordering of the verb before the noun. Herodonus's construction most closely resembles the example from lliad τ (2b) with $\tau \delta \bar{v}$ eimiqueau... \bar{e} mes, The examples in (3) have the noun ordered before the verb; in the majority of (3c) the demonstrative participates in the formula. In almost all instances, one member of the figure occupies either position of the fourth dactyl, with preference for setting the other member in the third or sixth dactyl.

[&]quot;An autience at Grancell College interrogated a kernel of thus paper in March 2010; I thank Monessa Cummins and Gerald Lalende for helpful feetbock. Thanks also to Maria Kritikoo for insural help with Perstan, and Alexander Nikolaes and Samued Rausmar for insughtful discussion. My engagement with Cressan for this version would not have been possible without Mehr Ali Newad and Pieter-Arnold Minnim's guidance Laxib., I am graefful to the deuties for this opportunity to captess my difection and administantion for our honorand, and for their work in making this presentable. Any errors in it are wholly mine, and may they not detract from my estern.

II adopt Schwyzer's definition of figura etymological (1910:74): "wird der Akkusativ des Inhalts von einem Substantiv gebilder, das der gleichen etymologischen Supe wie das Verbum angehort (daher die nur für die beiden Urformen assende und nicht eindeutgen Bezeichnung fürurar ermologisch)." Cf. n. z.

^{*}See Clary 2009 for a more muanced reatment of etymological figures in Greek epic. As for formulas, for present purposes, Parry's (1971:13) classic definition suffices. "an expression regularly used, under the same metrical conditions, to express an essential idea."

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(2)	a.	Od. 23.342	elnev ëmpç	3 4.±
		Od. 18.166, 171	είποιμι έπος	
		Il. 20.250	εϊπησθα έπος	-14-
	b.	Il. 7.375 168' ein	ήμεναι πυκινόν Επος	- + 1 pu +
		Il. 24.75 Th.	. είπιο πυκινόν έπος	· 3 por 4 or
		Il. 24.744 aidi ti.,	. είπες πυκινόυ έπος	1 1 · · · · · ·
	c.	Il. 1.108, 543	l elmas emos	- *
		Il. 7.394	eineiv enoc	- *
		Od. 19.98	erny enos	±
(3)	a.	Od 22.392 eno	eimuus	~ ² ~ ³ ~
	b.	Od 16.469	l δπος černes	-±±_
		Od. 14.509	έπος νηκερδές δενασ	p = 1000=
		Il. 5.683	Emos 3' aradidia e	range becolude
		Il. 23.102; Od. 19.362	Exact 9, eyodropos se	EFFER LANGUE -
	C.	Il. 3.204	TOUTO čitos vijus ptės šeine	g 141_101_
		Od. 16.69; 23.183	τούτο έπος θυμαλγές έσπο	ec 244_204_
		Il. 15.206; Od. 8.141	τούτο έπος κατά μοίραν ἔς	remer 3-4-0-1-0-6
		Od. 21.278	τούτο έπος κατά μοίραν ἔι	NAME 3-4-0-1-0-6-
		Od. 8.397	οδ τι έπος κατά μοίραν δι	men 1-6-0-1-0-1

Flowever, the collocation <code>emos eimon</code> is found three other times in the Histories (4,), which at first blush appear not to function the same as in 7.236. In fact, the passages exhibit a bundle of recurring features that may suggest a different function for the etymological figure:

- (4) a. 3.151.1 efter τοῦτο τὸ ἔπος (A Babylonian to Darius, introducing mention in oratio reacts of the adynation that Babylon would fall only when mules start bearing young.)
 - b. 4.143.1 τούοδε εἴπας... ἔπος (Darius to Artabanus in orutio obliqua on preferring to have men like Megabazus, his commander in Europe, over rule of Greece.)
 - c. 4.144.1 επας τόδε (τὸ) ἔπος
 (Hude's brackets. Megabazus to the Byzantines in oratio obliqua on the Chalcedonians' poor choice of settlement.)

Examples (4a)-(c) are all constructed as verb + noun + demonstrative, and all intro-

duce non-Greek speech. The Persian utterances introduced by (4b)–(c) are all in omitio abliquat, while the Babylonian taunt that follows (4a) is in retal. If these characteristics betray Herodotus' systematicity and intentionality, the fact that 7.226 possessor the morphosyntactic features of (4b)–(c) but has a Spartan subject is curious (though see in. 3). On closer inspection, Herodotus' use of the figure stymologica in (4) patterns with a subset of the Homeric examples in (2)–(3), where the epics' antagonists can be the subjects:

(s) a. Narrator's voice : non-Greek/ANTAGONIST subject

II. 5.683 (3b) Sarpedon asks Hector for help in the fight : Sarpedon eeme

b. Non-Greek/ANTAGONIST's voice : non-Greek/ANTAGONIST subject

II. 7.375 (2b)	Priam instructs Trojans on a ceasefire and offer of gifts
	to Greeks : herald εἰπέμεναι
Il. 7.394 (2C)	Idaeus the herald conveys Priam's message from 7.375:

II. 24.744 (2b) Andromache laments over Hector's body: Hector emes
Od. 8.141 (3c) Euryalus, Alcinous' son, responds to his brother Lao-

Od. 8.397 (3c)

Laodamas ĕerneç

Alcinous commands Euryalus to make amends for improperly challenging Odysseus: Euryalus ĕernep

damas' idea to challenge Odysseus in their games :

c. Greek/PROTAGONIST's voice : non-Greek/ANTAGONIST subject

Od. 21.278 (3c) Odysseus praises Antinous' approach to the contest with the bow: Antinous ἔειπε

The foreign subjects of Herodotus' etymological figure in (4) are thus not mutually exclusive of the Spartan in (1), since, like Homer, the historian aimed "to accord glory to the great and wonderful ergia both of Greeks and non-Greeks" (Marincola 2006 12008 118).

Let us turn to the Persian boast itself. The image of arrows hiding the sun has been found outside Herodotus, but the treatment of the parallels in the literature amounts to trivia and/or dogma. West (2009:92) passes on Merkelbach 1975:203, who reports Meuli 1994:66, with n. 16:

ALFRED BLOCH weist mir das gleiche Wort mindestens ein halbes Jahrtausend früher als die von NOLDEKE aus Daqīqī und Firdawsi angeführten

^{&#}x27;A related example is 6.65 3 to 6me, to 6me (Leotychidas, prosecuting Demaratus at Cleomenes' instigation, adducing in oratio oblique Anston's oath that Demaratus was not his child), which does not meet the structural description of verb + internal accusative. Another is 6.47.2 to 6me, oftau (regarding the content of a message from Croosus, a Lydan, to the Lampsaceness concerning Milandes), but 8me is the subject of 6me.

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Stellen im Indischen nach; ich gebe hier nur das wichtigste [MBh. 4.48.3, v.7, and v.16; 7.16.60; 8.10.19, chap.15.21, v.22, and v.24; R. 3.25.33b, v.35a, and v.40a].

who builds upon Noldeke 1923:3-5:

Nun glaube ich aber sogar ein Herodotisches Geschichtehen für historisch erklaren zu können, das auch ich früher nur für eine hubsche Anekdore halten mochte. In dem kleinen Teile des persischen Shähname, der von dem früh verstorbenen Dagigi herrührt, heißt es: [(18b)]. So auch in dem von Firdausi herrührenden, bei weitem umfangreicheren Teile des Shāhnāme: [(13a)] und [(13b)]. [Nöldeke quotes a verse in a now rejected reading and two similar verses from the Borzū-nāma (see Hanaway 1989), attributed to 'Ata'i and later than the Sah-nama. | Es ist nicht unwahrscheinlich, daß die beiden im 10. Jahrh, n. Chr. lebenden Shähnäme-Dichter den hyperbolischen Ausdruck für die Menge der Pfeile schon in ihrer prosaischen Vorlage fanden, deren Quellen auf Schriften des 6. Jahrhunderts zurückgingen, und daß er eben auch schon in diesen vorkam, [...] Und so konnen wir ruhig annehmen, daß der Trachinier, der sie bei Herodot 7, 226 dem Spartaner gegenüber auf die ungeheure Menge der feindlichen Barbaren anwendet, sie nicht selbst erfunden, sondern, wie man das auch wohl immer angenommen hat, sie einem echt persisch renommierenden Perser nachgesprochen hat, der so das Alter derselben bezeugt.

The trail ends here, and this is more or less the extent of the discussion. However, T. Nöldeke's three passages from the Sāh-nāma can be increased to twenty-two. Before we examine these and the arguments for Noldeke's idea,* consider the form of the Persian boast as recorded by Herodonus:

(6) ἐπεὰν οἱ βάρβαροι ἀπίωσι ΤΑ ΤΟΞΕΤΜΑΤΑ, τὸν ἥίλιον ὑπὸ τοῦ πλήβεος ΤΩΝ ΟΙΣΤΩΝ ἀποκρύπτουσι τοσοῦτο πλήβος αὐτών εἶναι

The vaunt is structured as a temporal clause + main clause + pleonasm, and the components of the image are ordered 'arrows' + 'sun' + 'hide'. The historian uses two words for 'arrows', the second of which is incorporated into a prepositional phrase

*1 cannot address Menlis really his colleague Bloch's—proposal here. Menlih cight MBh passages can be increased on a fast selvary+ss, which show that the trope of arrows his hos home fexual variation, appears to be formulate. Merkelbach's (1972-103) characterization that the Sankirt and Persua variation, appears to be formulate. Merkelbach's (1972-103) characterization that the Sankirt and Persua variation is a superior so that the Sankirt and Persua demonstration (εf. Slagevely 1979) complete a full demonstration (εf. Slagevely 1979) complete in the superior so full relation to the superior so full demonstration (εf. Slagevely 1979) complete in the superior so full relation to th

modifying 'hide'. In addition to the semantic content of the image, these lexical, morphosyntactic, and stylistic aspects will be important to bear in mind going forward.

3 The Šāh-nāma of Ferdowsī

One of Nöldeke's sources for Persian verses comparable to the vaunt reported by Herodotus is the national epic of Iran, written in New Persian in the late tenth/carly eleventh century cs. The Sah-nama of Abu'l-Qäsem Ferdowsi (940-1025 CB; see Khaleghi-Motlagh 1999 [2012]) tells the story of the country from its mythical beginnings to the generation before the poet's. It is massive, taking up eight volunted in Khaleghi-Motlagh's (1988-2008) critical edition (hereinafter, KM). The entire epic is composed in rhyming hemistichs or magnawi, with each hemistich in motangarith magnaman mahdaf meter/wiw-wiw-wiw-vi-v/in Hellenist terms, a bacchiac tetrameter catalectic.

Now, these basic facts might cast any comparison with Herodorus into serious doubt, even before we engage with the data. A yawning gap of nearly a millennium-and-a-half separates Herodotus 'Historica and Ferdowsi's poem, and the terms for Ferdowsi's verseform betray Arabic origins. D. Fehling dismisses Ferdowsi as derivative of Greek sources (1989:111). However, other considerations allow us to proceed. Pace Fehling, some learned allusions to western classics do not damn the poet's ingenuity or reliance on his own native tradition. In a similar vein, while Persian verse is heavily indebted to Arabic poets and metricians for its forms and technical terminology (see Elvell-Sutton 1986 [2011]), Arabic influence beginning in the seventh century CB was not tantamount to a wholesale replacement of the native Persian system of versification (see Landau 2010). Most importantly, the language of Ferdowsi's New Persian is a direct descendant of the Old Persian that Xerxes spoke (see Skjærva 2006 [2013]), and the Sab-nāma shows traces of oral poetic tradition, with specific regard to formulaics, if not only in style chen also in substance (see Davis 1996). The Sāb-nāma may thus be preserving features of Old Persian opto.'

Before looking at the venes themselves, some remarks on Ferdowa''s lexical choices are in order. The is the basic word for 'arrows', 'for which paykin 'arrow- (or spear-) head' and/or pare 'feather' can stand in syncedoche; Ferdowsi can also pleonastically use $n\bar{n}$ with one or both of its syndecdoches. Lastly, metaphorical $n\bar{n} + b d\bar{n}$ 'tain' is robustly attested. In all $n\bar{n}$ occurs nineteen times in this collection, and construction in prepositional phrases headed by $b\bar{n}$ (accompaniment/instrument/description) $3\times$ and $a\bar{n} + x/n\bar{n}$ (so (ablatival/genitival/instrumental relationships) are frequent. We can represent all these expressions in formulaic notation as ARROWS. Three terms denote 'sun': $b\bar{n}$ and its metonyms $b\bar{n}$ $b\bar{n}$ 'sunshine' and $b\bar{n}$ - $b\bar{n}$ 'sun-shine'. However,

^{&#}x27;If Merkelbach is correct (see n. 4), an Indo-Iranian pedigree for the image would mitigate the lateness of the Sah-nama.

⁶Glosses after Steingass 1892, Hayyim 1934-6, and P.-A. Mumm, p.c

arrows can also hade the stars, the sky, air, earth, and the world, either on its own or an combinations with other terms. We can unify these diverse entities under SPHERE, which captures the ball of fire, its radiation, the sphere over which it travels, the space between the sun and the earth, the earth itself, and the sum of these. Ferdows most exercises his craft in his varied expressions for obscuring. These involve nor just covering, but also filling, resemblance to burds, darkness, the removal of light or color, clouds, night, and, most broadly, imperceptibility. These diverse expressions can be united under OBSCURE. From the relatively wide lexical variation of components of the image, it is difficult to see the trope's formulaic nature, though the "particular essential idea[s]," to use Parry's words (see n. 2), are underlyingly the same

However, from closer inspection of the ordering of the members and their metrical contexts, we find subregularities that make the trope formulaic. Eight passages attest the formula with the components ordered ARROWS SPHERE OBSCURE (in the quoted passages below, expressions and translations for ARROWS appear in small capitals, SPHERE with underscore, and OBSCURE in bold face). In seven instances, ARROWS abuts a half-verse boundary, and in all eight the expressions for OBSCURE do. In the passages in (7), the formula is coextensive with half-verse bo?

- (7) a. Kay-Kosrow: Forūd Son of Siāvaķš v. 1134b (KM III-95) BA TīR <u>az jabān</u> raulanā' ī baburd #
 - "[Bahrām d]immed WITH HIS SHAFTS the brightness of the sky."

 (WW III:101)
 - b. Kosrow Parvēz v. 427b (KM VIII:34)
 BA TÎR az havā raušanā'ī baburd! #

"[Bendwi] WITH HIS ARROWS robbed/ The air of light."

(WW VIII:220-1)

In (8), the formula takes up half-verse a:

- (8) Kay-Kosrow: Great War v. 1651a (KM IV:276) #ZI TĪR āsemān šud ću parrān 'uaāb |
 - "And heaven was like an eagle's wing WITH ARROWS." (WW IV:227)

The passages in (9) show ARROWS closing half-verse a and SPHERE OBSCURE constituting half-verse b;

- (o) Kay-Kosrow: Kāmus of Kašan (KM III; WW III)
 - a. 130.402

...AZ...TIR | zamm šud ba kirdār i darya-yi qır #
"What WITH... JAVELINS / The earth became as 'twere a sea of pitch."

(p. 130)

b. 140,700

AZ ... BARAN-I TÎR | bantê čašm-î g av-îêd Sud g ra g îr
"[the sun's] cvc was dazed/... BY THE RAIN OF ARROWS." (p. 149)

In (10), the formula takes up most of a whole verse:

(10) Kay-Kosrow: Kāmus of Kašan v. 2001 (KM III:227)
kī āĀRĀN-I O būd. . . TĪR | jahān šud bu kirdār-i darņā-yi gēr
"[A cloud h]ath risen rainting shafts . . . / And all the world is like a sea of
pitch" (WW III:220)

The formula can straddle a verse boundary, across contiguous half-verses in (11) and with an intervening verse in (12):

- (II) Kay-Kosrow: Bartle of the Eleven Ruks vv. 1485b-1486a (KM IV:94)

 | BABĀRĪD TĪR....# jahān bin lab-i bahman as zīra mēģ

 "Arrows showered]...The world was like a winter's night for murk"

 (WW IV:81)
- (12) Kay-Kosrow: Great War vv. 1648b + 16502 (KM IV:276)

 ...BARAN-10 TIR... + # hand gait tim tiddur-i nil-gien |

 "[A cloud] RAINING SHAFTS... The air was like a robe of indigo"

 (WW IV:227)

In two passages (13), ARROWS is coextensive with half-verse a, with OBSCURE preceding SPHERE and together comprising half-verse b:

- (13) Kay-Kosrow: Kāmus of Kašan (KM III; WW III)
 - a. 121.265

ZI PATKAN I PÔLÂD U PARR-I 'UQĀB | sipar kard bar pēš-ci az āfiāb
"The points of steel and eagle-plumes bedimmed/ The mid-day
sup" (d.124)

b. 227,2002 #ZI PAYKÄN-I POLAD U PARR-I 'UQAB | siyah gait rukian ruk-i âftâb # "The glorious visage of the sun grew dark/ WITH BAGLES' PLUMES AND ARROW-HEADS OF STEEL." (p. 220)

^{**}Persuat text from Khaleghi Modtagh 1988-2004 (KM), translations from Warner and Warner 1905-29. Chernatifier WW) A note on cong KM. Khaleghi-Modtagh subdiredes the Side-alima according to long and tridle each story episionously, but he does not number them, and verse numbering returns with each story, maling cations cumbenome. Where expediency distants, I therefore circ wextest by their story—internal numbers, with hemiscals labeled a or h, combined with the KM volume + page number in lieu of story with hemiscals labeled a or h, combined with the KM volume + page number in lieu of story with Soft-Sig-Kostonov Ford'd sour of Sink 36-134gh (KMI Higg)** in O) can be diversed to "Higgs 114gh."

In three passages, ARROWS follows SPHERE OBSCURE: a compact formulation verse-finally in (14a), taking up half-verse a in (14b), and distributed across verses in (14c):

- (14) a. Kay-Kosrow: Kāmus of Kašan v. 2801b (KM III:279)

 . hayā pur 21 TIR #

 "air is full of ARROWS" (WW III:265)
 - b. Balāš v. 93a (KM VII:38)
 # <u>havā dām-i kargas šud AZ PARR-I TĪR</u> |
 "FEATHERED SHAFTS/ Made air all vultures" plumes" (WW VII:177)
 - c. Kosrow Parvēz vv. 581b-582a (KM VIII:46)
 ... az havā raulanā ī baburd! # hamē TIR BĀRID...

 "[he] robbed the air of lustre with His SHAFTS" (WW VIII:220)

In two others that are nearly identical (15), ARROWS follows OBSCURE SPHERE, both times comprising whole final half-verses:

- (15) a. Kay-Kosrow: Great War v. 800b (KM IV:221)

 | bapāšīd rīy-1 havā PARR-1 TIR #

 "air was veiled with feathered shafts." (WW IV:181)
 - b. Nušin-Ravān v. 934b (KM VII:161) | bapāšīd rōy-i havā-rā BA TīR! # "Hc ... veiled/ Air's facc with shafts." (WW VII:274)

Multipartite members of the formula need not be contiguous, Ferdowsi achieves synchysis in (16), where ARROWS and SPHERE interlock with members of OB-SCURE:

- (16) a. Goštāspi Goštāsp against Ārjāsp vv. 479a + 480a (KM V:121)

 # bukarrland yek TIR-BĀRĀN navust! + # bušsud ājīdu nz jubim nāpadšīd |

 "first they sent/ A SHOWER OF ARROWS . . . Such that the sun's course was
 invisible!" (WW V. 57)
 - b. Goštāsp: Rostam and Esfandiār v. 1126 (KM V:386) ... girifland... rīfa: I KIDANG | baburdand az rūy-1 K'ar-šēd rang! # "They took their... SHAFTS OF POPLAR WOOD./ The sun's face lost its lustre" (WW V:229)

Two passages show the ordering SPHERE ARROWS, with members of OBSCURE surrounding SPHERE in (17a) and ARROWS in (17b):

- (17) a. Kay-Kosrow: Great War v. 1315 (KM IV:254)
 # to guite "baramete bis sed mab" IZ BARIDAN-LTTR...
 "FROM THE SHOWERS/ OF ARROWS... thou wouldst have said:—/ "The
 sun and moon contend!" (WW IV:259)
 - b. Hormozd Son of Nušin-Ravān v. 874b (KM VII:337)
 | sitāra šud AZ PARR U PAYKAN siyab! #
 "The stars were dimmed by POINTED, FEATHERED SHAFTS."
 (WW VIII:128)

A last set of passages exhibit repetition of SPHTRE OBSCURE. Comparable to the passages in (7)-(8), we see in (8a) ARROWS SPHERE OBSCURE in one half-verse followed by another iteration of SPHERE OBSCURE in the next; like the passages in (15), ARROWS follows OBSCURE SPHERE, which is reversed then repeated twice, in (18b); not unlike (16), (18c) exhibits synchysis of multipartite ARROWS OBSCURE SPHERE, with simpler reiteration of SPHERE OBSCURE:

- (18) a. Kay-Kosrow: Kāmus of Kašan v. 1257 (KM III:181)
 # ZE PARR UZE PATKĀN bauš tēra gašt lhamē āfiāb andarā bīra gašt #
 "The air was dark with [PUMES] AND [POINTS]/ The sun became
 confounded" (WW III:178)
 - b. Gośtisp: Gośtisp against Apisp v. 481 + 2a + 4a (KM V:121)
 # bapōśtida śud łaśma-ni dpłab | ZI PATKĀN ...
 # tu gupth "juhān abr darad hami! + # hanā zi juhān būd lab-gūn tuda |
 "The founcain of the sun was garnitured/ WITH JAVELIN-HEADS
 ... One would have said: "The sky is overcast[" ...] all the air/ Assumed
 the hue of nighth" (WW V:57)
 - c. Kay-Kosrow: Great War v. 1930 (KM IV:294)

 # bava pur ZI PATKAN šud U PARR-I TĪR | zamīn šud bu kirdār-i
 daryā-yī gīr #

 "The air/ Was full of [ARROWS' HEADS AND PLUMES];/ The world was[
 like [a] sea [of pitch]." (WW IV:243)

I summarize these orders, ignoring reiterations, as follows:

^{*}WW translate Vullers' tiv as 'spears' for which KM has pure 'feathers'. For puykin 'arrow-/spearheads'
WW have 'tavekins'.

[&]quot;WWY translation has "arrows, the earth of elephants.. heaving like the dark blue" for Vullers' (III 1371 v. 1932) reading tir o zamin pur o pil | jehún ... nil.

(19)	a.	ARROWS SPHERE OBSCURE #	$2\times$	(7a) (b)
		# ARROWS SPHERE OBSCURE	2×	(8); (18a)
		ARROWS SPHERE OBSCURE #	z×	(9a)-(b)
		ARROWS # SPHERE OBSCURE	ı×	(11)
		ARROWS + #SPHERE OBSCURE	1×	(12)
		# ARROWS SPHERE OBSCURE #	ī×	(10)
	b.	SPHERE OBSCURE ARROWS #	IX	(14a)
		# SPHERE OBSCURE ARROWS	I×	(14b)
		SPHERE OBSCURE # ARROWS	$_{\rm I\times}$	(14C)
	c.	# ARROWS OBSCURE SPHERE #	2×	(13a)-(b)
	d.	OBSCURE SPHERE ARROWS #	2×	(15a)-(b)
		# OBSCURE SPHERE ARROWS	×1	(18b)
	e.	OBSCURE SPHERE OBSCURE' ARROWS	ı×	(17a)
		# ARROWS + # OBSCURE SPHERE OBSCURE'	ı×	(16a)
		ARROWS OBSCURE SPHERE OBSCURE #	1×	(16b)
		SPHERE OBSCURE ARROWS OBSCURE' #	1×	(17b)
		# SPHERE OBSCURE ARROWS OBSCURE' ARROWS'	1×	(181)

With three components, the formula can be configured in six ways, but two are unattested: *SPHERE ARROWS OBSCURE and *OBSCURE ARROWS SPHERE. This gap suggests that SPHERE OBSCURE, in either order, coheres as a unit; in the passages with synchysis, two examples show components of OBSCURE interlocking with ARROWS SPHERE, and in the one example with ARROWS interlocking with OBSCURE, the first member of OBSCURE still lies adjacent to SPHERE. Of the attested orders, Ferdowsi favors ARROWS SPHERE OBSCURE (8x) over SPHERE OBSCURE ARROWS (3×), ARROWS OBSCURE SPHERE (2×), and OBSCURE SPHERE ARROWS (2×). As for their metrical environments, expressions for ARROWS abut verse boundaries twenty-four times: to the right of the halfverse boundary 4x, to its left 8x, to the right of verse-end 7x, to the left 5x, and co-extensive with the hemistich 4×; OBSCURE adjoins the half-verse break 13× (to its left 8x, to its right 5x) and verse-end 12x (to its left 10x, to its right 2x); articulations of SPHERE together account for fourteen instances at the half-verse boundary (to the left of one 1x, to the right 6x; to the left of verse-end 2x, to its right 5x). We can express these tendencies by the following scheme:

(20) [ARROWS // *] // [SPHERE // [OBSCURE // *]]]

SPHERE and OBSCURE, preferably in this order though reversible, with OB SCURE adjacent to a half-verse boundary, be it medial or final, can together follow (or precede) ARROWS, which should itself abut either the medial or final break. This scheme can then be instantiated by words from an array of lexemes and constructions, the choices of which can be driven by the need to rhyme hemistichs.

4 Conclusion

In sum, numerous passages from the δdsh -name show that the image of arrows hiding the sun instantiates a more lexically varied formula ARROWS SPHERE OBSCURE, suggesting its antiquity. If New Persian descends from Old Persian, and if Ferdowsi was indebted to sources including the Persian oral tradition, then the boas in Herodorus (6) may have been drawn from now-lost Old Persian epic. If, as Noldeke, we apply an overly strict lexical and formulaic filter, only (13a) and (18b) can be compared to (6) = (21):

If we limit the comparison to the main clause, the image instantiates the order "SPHERE ARROWS OBSCURE not found per se in the Sābr-nāma, though (τ/ν) SPHERE ASROWS in an instrumental/ablatival construction. But, if we look at τὰ τοξιώματα, τὸν ἢλου, and ἀπο-κούπτουν, since τῶν ἀϊτνῶν really belongs in the OBSCURE expression, Herodotus' version conforms to the eight Persian passages in (τ)-(τ) at which ARROWS SPHERE OBSCURE. The Persian passages with synchysis in (16)-(17) can be compared in-directly. Finally, the pleonasm in the Greek recalls the reiterated Persian passages in (18a).

If Ferdowsi can serve as a witness, it was their own epic tradition that the Persians were calling down on the Spartans, and with courage Dieneces wittily but unwittingly participates in it:

The protasis in effect provides the boast with a reiteration, since it paraphrases it, which can be compared to the Persian passages in (18b) (c). However, the heart of

Angelo O. Mercado Šāhs at the Pass of Thermopylae

Dieneces' counter-boast is the very terse apodosis, and on this with ĕno5 elmeîv Herodotus shines the light of Homer.

Abbreviations

- KM = Khaleghi-Motlagh, Djalal (ed.). 1988-2008. Abu'l-Qasem Ferdowsi, "The Shah-nameh" (Book of Kings). New York: Bibliotheca Persica.
- TLG = The Thesaurus Linguae Graecae Project. 2009. Thesaurus Linguae Graecae. Irvine: University of California, Irvine. http://www.tlg.uci.edu/
- WW = Warner, Arthur George, and Edmond Warner (trans.). 1905–23. The "Shah-nama" of Firdausi. London: Kegan Paul.

References

- Clary, Todd. 2009. "Rhetoric and repetition: The figura etymologica in Homeric epic." Ph.D. diss., Cornell University.
- Davis, Dick. 1996. "The problem of Ferdowsi's sources." Journal of the American Oriental Society 116:48–57.
- de Sélincourt, Aubrey (trans.). 1972. Herodotus, the "Histories." Rev. by John Marin-
- cola. London: Penguin.
 Elwell-Sutton, Laurence Paul. 1986 [2011]. "farñé." In Yarshater et al. 1996- . http:// www.iranicaonline.org/articles/aruz-the-metrical-system [Originally published in
- Yarshater 1982-, 2:670-9.]
 Fehling, Detlev. 1989. Herodotus and His "Sources": Citation, Invention and Narrative Art. Transl. J. G. Howie, Leeds: Cairns.
- Hanaway, William L. 1989. "Borzü-nāma (article 1)." In Yarshater et al. 1996—. Available at http://www.iranicaonline.org/articles/borzu-nama-epic-poem-1 [Originally published in Yarshater 1982—. 4:180—1.]
- Hayyim, Sulayman. 1934-6. New Persian-English Dictionary. Teheran: Béroukhim.
- Hollmann, Alexander. 2000. "Epos as authoritative speech in Herodotos' Histories." Harvard Studies in Classical Philology 100:207–25.
- Hude, Karl (ed.). 1927. Herodots Historiae. 3rd ed. Oxford: Clarendon.
- Khaleghi-Motlagh, Djalal. 1999 [2012]. "Ferdowsi, Abu'l-Qäsem i. Life." In Yarshater et al. 1996 - Available at http://www.iranicaonline.org/articles/ferdowsi-i [Originally published in Yarshater 1982 - 9:514-23.]
- Landau, Justine. 2010. "L'adaptation de la métrique Halilienne à la poésie persane: Transfert et variations." Bulletin d'études orientales 59:101-26.
- Marincola, John. 2006 [2008]. "Herodotus and the poetry of the past." In The Cambridge Companion to Herodotus, eds. Carolyn Dewald and John Marincola, 13–28. Cambridge, UK: Cambridge University Press.

Merkelbach, Reinhold. 1975. "Zwei Bilder aus der Sprache der Reiternomaden." Zeitschrift für Papprologie und Epigraphik 19:203-7.

- Meuli, Karl. 1954. "Ein altpersischer Kriegsbrauch." In Westostliche Abhandlungen: Rudolf Tschudi zum 70. Geburtstag überreicht von Freunden und Schulern, ed. Fritz Meier. 63–86. Wiesbaden: Harrassowitz.
- Noldeke, Theodor. 1923. "Zum Herodot." Klie 18:1-5.
- Parry, Milman. 1971. "The Traditional Epithet in Homer [1928]." Transl. Adam Parry. In The Making of Homeric Verse: The Collected Papers of Milman Parry, ed. Adam Parry, 1–190. Oxford: Clarendon.
- Schwyzer, Eduard. 1950. Griechische Grammatik. Vol. 2: Syntax und syntaktische Stilistik. Completed and ed. by Albert Debrunner. Munich: Beck.
- Skjærvø, Prods Oktor. 1998. "Eastern Iranian epic traditions II: Rostam and Bhīṣma." Acta Orientalia Academiae Scientiarum Hungaricae 51:159-70.
- —, 2006 [2012]. "Iran vi: Iranian languages and scripts." In Yarshater et al. 1996 http://www.iranicaonline.org/articles/iran-vi-iranian-languages-and-scripts [Originally published in Yarshater 1982—, 13:344-7.]
- Steingass, Francis Joseph. 1892. A Comprehensive Persian–English Ductionary. London: Routledge and Kegan Paul.
- Vullers, Johann August. 1877–84. Firdusis Liber Regum Qui Inscribitur "Schahname."
 Vol. 3, ed. Samuel Landauer. Leiden: Brill.
- West, Stephanie. 2009. "Herodotus in Lycophron." In Lycophron: Eclast d'observité. Acts du colloque international de Lyon et Satur-Étienne 18-20 janvier 2007, cds. Christophe Cusset and Évelyne Prioux, 81-93. Saint-Étienne: Publications de l'Université de Saint-Étienne.
- Yarshater, Ehsan (ed.). 1982- . Encyclopedia Iranica. London: Routledge and Kegan Paul.
- Yarshater, Ehsan, et al. (eds.). 1996 . Encyclopedia Iranica. Online ed. New York: Columbia University Center for Iranian Studies. http://www.iranicaonline.org [Originally published as Yarshater 1982 - .]

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Elision and Prosodic Hiatus between Monosyllabic Words in Plautus and Terence*

KANEHIRO NISHIMITRA

x. In his edition of Plautus' Aulularna, Wagner (1876:68) refers to a general law, asched to Fleckeisen (1850-1:58),' concerning the prosody of this dramatis, and no doubt of Terence as well (though in a more restricted manner): "Monosyllable terminating in a long somel or in need not coaleste with a following short sowe!" (his italics). Monosyllable may also undergo elision, even though this would lead to significant lexical erosion.\(^1\) However, as shown by Wagner's "need nor," when clision is "partially" avoided, a monosyllable and a following (b)\(^1\) do not coaleste with each other but are separated by a so-called prosodic histus (with the foregoing monosyllable scanned as short),\(^1\) as in Pl. Am. 450 quô ágis and Cas. 225 quôm âmo.\(^3\) As seen from these examples,\(^3\). \(^1\). \(^1\). \(^1\) word in the law is normally taken as one that appears in a light syllable (\(^2\) eine kurze Sible" as stated in Fleckeisen 1850-150)\(^1\) Although the

phonetic details involved in both clision and prosodic hustus are often disputed, *the relatively high frequency of the latter in monosyllables may be explained as follows: if a final long vowel (or also -1/m or a diphthong) stands before a short vowel in a light syllable, i.e. (b)/F. (. = syllable boundary), and if hiatus does not occur, clisson may produce a problematic phonological complexity; it sacrifices the length of the final vowel by prioritizing the initial monomoraicity of the following word. This would involve cancellation of the bimoraicity of the final long vowel, which for monosyllables would have significant effects on lexical erosion. *

a. In this digital era, we can locate with relative case every single junction between monosyllables and following short vowels in Latin texts so as to examine whether each case involves clision or prosodic hiatus. As is usual in pre-Classical drama, not a few cases remain ambiguous, because the meter allows a variety of foor structures to substitute for normative ones (such as iambic and trochaic feet), thus making both clision and prosodic hiatus possible.¹⁰ While bearing this ambiguity in mind, we can still confirm the validity of the above-mentioned law on the basis of the texts themselves, where clision appears in some cases and prosodic hiatus in others. Wagner's hodge "need nee" can therefore be justified in a principled way.

a.r. Yet an extensive survey of junctions between monosyllables and following short vowels also sheds light on another noticeable propensity if we focus on a particular case: if monosyllables ending in -Vm (e.g., i.am and nm) are followed by other monosyllables of the shape (b)VC (e.g. is and iie), and if such (b)VC syllables are followed by an initial (b)V-2 and thus do not make position, the number of secure cases of elision of -Vm is relatively small; therefore, "need not" does not suffice in this case.
Although ambiguity remains in a number of cases," the creation of prosodic hiarus

^{*}I am deeply indebted to Wolfgang de Melo for his valuable suggestions. Special thanks also go to Benjamin Fortson, Dieter Gunkel, and Brent Vine for their useful continents. Naturally, all remaining errors are my own.

^{&#}x27;Cr. Pelz 1930 1, who credits Bentley with this law

⁴See also Corsson 1870:783-5. Word-final -Vm, as in iam 'now', is often interpreted as a nasalized and lengthened viwel (see Drealer 1967):7 n. 17; Allen 1978 30-1, 74; Gratwick 1993:281; and Nishimura 2010.172-3, but cf. Corsson 1870:780-91 and Fink 1969). We will recurs to the phoneness of πw below

³See Questa 1967.91; Gratwick 1993/233, 275 s.v. monarillable; and Hammond, Mack, and Moskalew 1997/40-1 Cf. Mernii 2002 xlv-v1

^{*}See Sturtes and and Kenr 1915 136 ("semi-clision") and Grarwick 1993.254 ("half-clided")

^{&#}x27;Cf the "logual" and "metrical" hiatus occurring with speaker changes, semantic pauses, diaereses/caesuras, etc.; see, e.g., Corssen 1870:784-5, Pelz 1930:2, Dreider 1967:48, Questa 1967:87-90, Barsby 1090 288-9, and Deufert 2002:340 1

See Christenson 2000:63-4 and MacCary and Willcock 1976 216. For the number of cases of prosodic hiatus throughout the works of Plainus, see Deufert 2002:340 with n. 2.

[&]quot;The short vowel following a monosyllable can be in a heavy (and unaccented) avillable (cf. Questa 1967 96) if it is guaranteed that the vowel undergoes samble shortening to form a resolved long with the preceding vowel or g. Pl. Car. 708 it ifficial (in a canateum); see MacCary and Williack 1997:186).

As for the possible effects of syntax, semanties, or metrical position on the selection hereien claims or promote, litarus, see Soubran 1966 332-72 and 1995/20-8. The context or pragmatises of scenes can also be faction (see Beckstein 1830-13), Consent 1870-748, Sturreaut and Kent 1931/193, and Grativick and Lightley 1983) CT further Riggibly 1991; 3.0-3 (on possible implications about social status or personal style associated with either of the two processes.

^{*}See, e.g., Sturtevant and Kent 1915/137-47; Brunner 1936; Hellegouare'n 1964/1242, 247, 322-3, Soubiran 1966/372-86; Dredler 1997/157-781. 14-15, Allen 1978.78-82, Hammond, Mack, and Moskalew 1997/40; Barbly 1999/260-1; and Chinstenson 2002/38-0.

[&]quot;In contrast, if a long wowel or a short vowel in a heavy syllable follows the final long wowel, cluston may result in a single heavy splaller following," as not of in MacCarry and Whitcher sprox sign of White 1997;148 (1997); and white 1997;148 (1997) in the sign of the sprox power in the sprox power in the sprox power in the sprox power in the sprox power in the sprox power in the sprox power in the sprox power in the sprox power in the sprox power results in morae addition, given the fact that there in no distinctive extrant for succe-freeway stables in the laneaue.

Allan (1918 79), citing Runner's research (1916) based on hexameters, states that there is no nonceable avordance of final long vowels before heavy syllables. On the other hand, sequences such as a final long vowel followed by an annual short vowel in a light syllable are "comparatively rare" (Allen 1978 79), as is already mentioned by Sturtevart and Kent (1915 153–4); see also Platinuare 1917 73, 78, [fellegouirc's 1904-1448–9, Allan 1978; 11, 7, 2004man 1965 576, (Eugenty 1979 139 78, 2 and Southern 1909 78).

¹⁰See Drexler 1967-46, Questa 1967-93-5, Soubiran 1995'26, Barsby 1999 299, and Shipp 2002'32; cf Soubiran 1966:331, 346-72.

[&]quot;The following is a list of 37 such cases: Pl. True. 133 (nem ...); Pl. Cur 466 (dum ...), Pl. Am. 1036, Men. 153, Mer. 677, Pom. 458, Rud. 565, Ter Her. 126, 366, Pb. 038, Hau. 104, 799 (nam.); Pl. Am. 918, Aul. 102, St. 462, Ter. An. 60, Her. 567, 694, Hau. 457 (nam. ...); Pl. Epul. 277, Men. 221, Pr. 1240, Rud. 1189, Thin. 341, Ter. An. 163, 203, Ph. 371 (quam. ...); Pl. Men. 479, Rud. 497 (quam. ...); Pl. Capr. 779, Thir. 93,

is more common than elision, pace Drexler's remark (1967:47) that "...vor Monosyl laba...laßt sich der Hiat nur selten feststellen." Examples center around sequences such as monosyllabic conjunctions or relative pronouns¹² + (h)VC-type conjunctions, pronouns, or prepositions (30 cases):13

Pl. Mos. 502 (iab)	defodit insepultum clam l [ibidem] in hisce aedibus
Pl. Am. 1137 (ia ⁶)	tu gravidam item fecisti, cum l în exercitum
Pl. Epid. 111 (tr7)	iam istoc probior [es] meo quidem animo, cum in amore
	temperes
Pl. Aul. 621 (tr ⁷)	aurum, dum I hic est occupatus, sed si repperero, o Fides
Pl. Rud. 1100 (tr?)	omnia istaéc ego facile patior, dum I hic hinc a me sentiat.
Ter. An. 825 (tr")	vide quam iniquos sis prae studio: dum 1 id efficias quod lubet
Pl. Am. 742 (tr7)	iterum iam I hic in me inclementer dicit, atque id sine malo.
Pl. Cas. 558 (tr7)	lam I hic est lepide ludificatus, miseri ut festinant senes.
Pl. Rud. 1383 (tr7)	iam ab isto auferre haud (potis) sim, si istunc condem-
	navero.
Pl. Bac. 388 (tr?)	nam ! ut in Ephesum hinc abii - hoc factumst ferme abhinc
	biennium -
Pl. Capt. 580 (tr ⁷)	nam I is est servos ipse, neque praeter se umquam ei servos fuit.
Pl. Cist. 688 (an+)	nam l et intus paveo et foris formido
Pl. Cur. 523 (ia7)	nam 1 et operam et pecuniam benigne praebuisti.14
Pl. Mil. 111 (ia6)	quam erus meus amabat; nam l is illius filiam
Pl. Poen. 926 (tr')	nam I et hoc docte consulendum, quod modo concredi-
	tumst
Pl. Ps. 284 (tr7)	nam i hie id meturt, ne illam vendas ob simultatem suam.
Pl. Ps. 699 (tr2)	nam et amicum et benevolentem ducis, sed ístic Pseudolus
Tcr. Ad. 6:8 (tr2)	nam ut hinc forte ea ad obstetricem erat missa, ubi eam
	vidi, ilico
Pl. Epid. 71 (11°)	quam 1 id argentum, quod debetur pro illa, denumeraverit.

(rem ...); Pl. Max 145, Ter Hau 982 (snm ...); Pl True, 171 (tam ...); Pl. Mer. 552, Poen. 984, Ps. 857 (tum.) Three others, Pl. Capt 233 (dum ...), 280 (cum ...), and Ter. Her, s43 (nam ...), may be added here, but textual and/or metrical uncertainty in these cases makes it difficult to judge. For some cases in the list one may infer either prosodic hiarus or clision based on syntactic, semantic, and/or metrical factors (see n. 7), as already observed by some scholars (see, e.g., Gratwick 1993:44, 254 and Soubiran 1995:24-8, cf. Barsby 1999 299 and Shipp 2002, 32). One particular case will be referred to in n. 15.

2My survey includes clam, cum, dum, tam, nam, quam, quem, quem, rem, and tam (there is no prosodic hiatus for sum and tum)

11 tentanvely include a few passages that involve emendation, the exclusion of such cases does not affect the following discussion so much. There are two other possible instances of prosodic hiatus, Pl. Epid 540 (quam.) and Part. 1142 (dum ...), but due to textual/metrical uncertainty for the former and the enigmatic content of the latter, these are excluded from the list

21. Epid. 307 (ia ⁶)	aeque feracem quam I hic est noster Periphanes:
21. Men. 393 (tr ⁷)	detulisti, quam l ab uxore tua surrupuisti quid est?
Pl. Ps. 1018 (ia ⁶)	numquam edepol quemquam vidi, quam I hic est Simia;
Pl. Ps. 1121 (an ⁷)	neque quicquamst mehus, quam ut hoc pultem atque
	aliquem evocem hinc intus.
Pl. St. 343 (tr ⁷)	verum ex multis nequiorem nullum quam i hic est. :: quo modo?
Pl. Bac. 176 (ia ⁶)	Mnesilochi Pistoclerum, quem 1 ad epistulam
71. Per. 650 (tr ⁷)	quom I et ipsus prope perditust et benevolentis perdidit.
Fcr. Hau. 802 (ia6)	mage veri simile id esse, quom 1 hic illi dabit;
Pl. As. 731 (ia ⁷)	satis iam delusum censeo. nunc rem 1 ut est eloquamur.
?l. Mil. 741 (tr")	nam hospes nullus tam I in amici hospitium devorti potest
Pl. Rud. 1147 (tr ⁷)	quae parentis tam 1 in angustum tuos locum compegeris.

On the other hand, there are relatively few occurrences of elision. A list of undisputed examples of elision is as follows (9 cases):15

Pl. Bac 1191 (an ⁷)	age i(am), id ut ut ëst, etsi est dedecori, patiar, facere indu-
	cam animum,
Pl. Epid. 14 (tr7) Pl. Trin. 340 (tr7)	n(am) ut apud portum te conspexi, curriculo occepi sequi: n(am) et illud quod dat perdit et illi prodit vitam ad mise-
14. 27m. 340 (tt)	riam.
Ter. Hec. 696 (ia ⁶)	quam ob rem abs te abiret? :: plane hic divinat: n(am) id

Ter. Ad. 602 (ia8)	n(am) et illi iam rellevabis animum, quae dolore ac miseria
Pl. Mil. 119 (ia6)	priŭs perit qu(am) ad crum veni, quo ire occeperam.
Pl Time 742 (rr7)	hope istic caedent? morroom bercle me qu(am) ut id pariar

Pi. Truc. 742 (tr7)	bona istic caedent? mortuom hercle me qu(am) ut id patia
	mavelim.
Di Three to (inft)	and citing at am I also an average ours pulsiconto 16

Pl. Truc. 19 (ia ⁶)	quo citius r(em) ab eo averrat cum pulvisculo.16
Pi. Trin. 827 (an8)	nam pol placido te et elementi meo usque modo, ut volui
	usŭs s(um) in alto.

We can intuitively see why there are fewer occurrences of clision. Elision causes an extreme condensing of monosyllables in -Vm, (h) VC-monosyllables, and following mitial (b)V-'s, which may place too much strain on the plays' audience to perceive

[&]quot;Note that this case differs from others in that et o forms a resolved long.

[&]quot;Among the ambiguous cases listed in n. 11, Pl. Trin. 311 and True. 937 may point to elision rather than prosodic hiatus because prosodic hiatus would necessitate a proceleusmatic in seansion, which tends to be avoided in trochaic verse (see Soubiran 1995;61)

¹⁶ For this line, while scansion with prosodic hiatus is theoretically possible, this must involve quite crosive clision of eo or overly complex slurring between this and the following initial vowel, see the discussion in §3 below on Pl. Mer. 915, Ter. Eu. 500, Ter. Hau. 442, Ter. Ph. 718, and Pl. Car. 1902

word boundaries correctly. Elisson in, e.g., Pl. Epid. 14 above would have produced a phonetic sequence perhaps like [nutapud...] for n(am) ut apud..., which may have been somewhat perplexing. In what follows, I elaborate to some extent on this simple intuition.

a.a. We can began by recalling Hayes's brief description (1995;180), inspired by Allen (1973;188–90), about the early stages of Latin as governed by a stress assignment rule based on bimoraic trochees (♥ ∨ = LL. or = #\)\frac{1}{2}\] that are allotted from the word-initial to the word-end, i.e. from left to right. This direction is exactly the opposite of the traditional accent rule of Classical Latin, in which accent assignment proceeds regressively (i.e., the penult receives the accent if it is heavy, otherwise the antepenult hosts the accent). This stark contrast may be surprising to non-linguist Classicists; but it neatly accounts for both the pre-Classical and Classical Latin data. The underlying framework is fuedly explained by Parsons (1999;122–3). Based on left-to-right footing, forms like facilius are passed not as fa(cili) (us) (as they would be with a right-to-left process) but rather as (facilii(us) (⟨ ⟩ = extranctrical material). The only complete foot in the form is therefore assigned a trochaic stress as in (fácilii(us), which most likely corresponds to the exact accentuation of the form in pre-Classical Latin, as possibly seen from the podic ierus of iambo-trochaic verse that coincides with the initial syllable. *\)

To return to the phonetic sequence [nutapud...] assumed for Pl. Epid. 14: if it is counted as a single prosodic unit (more or less equivalent to a prosodic word) at least temporarily in the process of lexical identification, and if it is parsed from left to right in accordance with the accentual rule above, the result would be (nuta) (pud)..., the first foot of which ends up containing as many as three morphological elements, namely elided nam, ut, and the first vowel of apud.¹⁰ Such a heavily-loaded inner structure of the foot can be considered a reason for possible acoustic confusion.²¹ Although such extreme complexity does not occur in all of the above cases, some sort of lexical opacity always presents itself.²¹

Therefore it can be said that prosodic hiatus serves as a convenient solution for

avoiding such complexity and that this is part of the reason for its high frequency Besides many cases of prosodic hiatus and some occurrences of clision, there are also a certain number of ambiguous verse lines, as mentioned above. But in view of what we have seen for the particular type of phonological sequence in question, a bias toward prosodic hiatus may also lurk behind such cases.

3. One may raise the question as to whether the same explanation can be applied to cases in which monosyllables in the first position of the sequence end in long towets, such as met and st. 11 Indeed, as seen from the following list, the number of cases that exemplify prosodic hastis for st-type monosyllables is almost comparable to that for imm-type monosyllables (so sease): 14

defodit, venerans me l ut id servarem sibi. me l id aurum accepisse extemplo ab hospite Archidemide. :: em
speroque me 1 ob hunc nuntium acternum adepturum cibum.
id ego continuo huic dabo adeo, me I ut hic emittat manu. nam illa me I in alvo menses gestavit decem putavit me I et aetate et benevolentia
pro Iuppiter! tu, homo, adigis me l ad insaniam. ci qui invidet mi l et ci qui hoc gaudet.
quid tu id curas? :: quia enim metuo, ne l in aqua summa nater.
quid ille faciat, ne l'id observes, quo eat, quid rerum gerat. mire depol sunt, ni l'hic in ventrem sumpsit confidentiam. ni l'id effecit, ni ei male dutit, ni grato ingratus repertust. qua l'ab illarum? nam ita me occursant multae: meminisse haud possum.
quae i ut aspexi, me continuo contuli protinam in pedes. qui I ad eri fraudationem callidum ingenium gerunt. (quid?) quae te mala erux agitat, qui I ad istune modum adulescens quidam est, qui I in hisce habitat aedibus; is est an non est? ipsus est. quid hoc hominist? qui I hic omatust?

the # of ## is scanned as light (see additional details in Ryan 2013). Such breaking-up of monosyllables may also have an obscuring effect on the process of lexical identification.

[&]quot;Cf the remark of He.legouarc'h (1964-253, based on hexameter verse), who mentions possible "confusion" when elision occurs between monosvillables

⁴⁴L = Light and H = Heavy. Note that the term "trochee" here is used in a way that differs from its conventional use among Classicists, for whom it normally means = v. See Mester's theoretical analysis of Latin syncope (1904.17–44), with the premise that Latin is merically based on himoraic troches.

³⁹ See Nishimura 2011:10-4 for more details, including the controversial issue of verse ictus (see also Nishimura 2014 162-3 n. 3, 168 n. 23) and the syncope of the type bilineum > balineum 'bath'

²⁰ Note that many of the monosyllables, particularly conjunctions (such as sum, dum, and mem), stand in clause-initial position (see also Southern 1998 23). This fact makes it likely that such words are counted as the leftmost elements in phonological feet.

³⁶ In this respect, polysyllabic words differ from monosyllables when elided, as briefly pointed out by Riggsby (1991 38—9, 482). That is, phonological crosion in the final syllable may not damage their lexical identity to a significant degree.

²³The phonetic sequence [nutapud.] is postlexically resyllabified as something like [nu]_{speet} [tapud]_{post}... (stated as prosodic words), in which the final consonant of ut is reaffiliated to the following apud because

³³Cf the caveat by Questa (1967:04): "ma talvolta me amas potrebbe celare un più antico mea amas." See also Questa (1967:188, Lindsay 1922:227, and Deufert 2002;342.

[&]quot;The following list results from an examination of dd, me, me, me, me, qua, quae, qui, que, re, se, se, te, and tae, some of which provide no examples of clisson and/or prosocile histus. From a syntactic and semantic standpoint, it, is less likely that monosvillable reconstitutes used as de and one precede monoscillable, the IVCs.

Pl Cut 89 (tr7)	quo I is homo insinuavit pacto se ad te? :: per Dionisia
Pl. Rud. 555 (ia6)	quo I ab arrabonem pro Palaestra acceperam
Pl. Bac. 964 (tr ⁷)	blanditiis exemit et persuasit se l'ut amitteret
Pl Mil. 1247 (ia7)	tibi et Phaoni Lesbio, tam mulier se I ut amaret.
Pl. As. 98 (ia6)	non offuturum, si 1 id hodie effeceris.
Pl. Cur. 144 (an ²)	cum argento ad me. :: magnum inceptas, si 1 id expectas quod nusquamst.
Pl Men. 460 (tr ⁷)	si I id ita esset, non ego hodie perdidissem prandium
Pl. As. 158 (tr ⁷)	quam magis te l in altum capessis, tam aestus te in portum refert.
Pl. Per. 562 (tr ⁷)	te I in exilium ire hinc oportet. :: quid iam? :: quia periurus es.
Pl. Mil. 428 (tr ⁷)	et tu \mid et hic. :: non nos novisti? :: neutrum. :: metuo maxume
Pl. Truc. 791 (tr")	iam tace, accepistin puerum tu (ab hac? :: accepi. :: tace,

But the frequency is relatively lower than that for imm-type monosyllables, since sitype monosyllables show about twice as many cases of elision (19) as do imm-type ones:

Pl. As. 747 (ia6)	inter m(e) et amicam et lenam, leges pellege.
Pl. Aul. 584 (ia ⁶)	Fides, novisti m(e) et ego te: cave sis tibi
Pl. Aul. 737 (tr")	deŭs impulsor mihi fuit, is m(e) ad illam inlexit. :: quo modo?
Pl. Epid. 72 (tr7)	eu edepol res turbulentas. :: mitte m(e) ut eam nunciam.
Pl. Mil. 1006 (tr ²)	tum haec celocula autem absentem subigit m(e) ut amem. :: hercle hanc quidem
Pl. Poen. 278 (tr?)	hanc equidem Venerem venerabor, m(e) ut amet posthac propitia.
Pl. Rud. 386 (ia ²)	sed duce m(e) ad illam ubi est. :: i sane in Veneris fanum huc intro
Pl. Per. 461 (ia ⁶)	quas tu attulisti m(i) ab ero meo usque e Persia.
Pl. Ps 594~5 (an8)	hi loci sunt atque hae regiones quae m(i) ab ero sunt demonstratae
Pl. Ps. 1292 (cr2 + cr2)	quód feró, sí qu(a) in hóc spés sitást mihí.
Pl. Cist. 237 (tr7)	sed ego primum, tot qu(i) ab amica abesse potuerim dies
Pl. Mil. 131 (126)	dedi mercatori cuidam, qu(i) ad illum deferat

amorem praecipitavit

hominem praebuit.

procul abhibendust atque apstandust; nam qu(i) in

tum Phormio itidem in hac r(e) ut in aliis strenuom

Pl. Mil. 404 (ia ⁷)	resipisces: s(i) ad erum haec res priŭs praevenerit, peribis pulchre.
Pl. Trin. 382 (tr ⁷)	verum ego quando t(e) et amicitiam et gratiam in nos- tram domum
Pl. Trm. 1027 (tr ²)	recipe t(e) ad erum. :: non fugitivost hic homo, com- meminit domi.
Pl. Capt. 551 (tr ⁷)	proin t(u) ab istoc procul recedas. :: ultro istum a me. :: ain, verbero?
Pl. Trin. 986 (tr ⁷)	quem tibi epistulas dedisse aiebas. :: cho, quaeso, an t(u) is es?

The list may be expanded by the following lines (5 cases):

Pl. Mer. 915 (tr ⁷)	sed quin intro ducis m(e) ad eam, ut videam? :: paullisper mane.
Ter. Eu. 509 (ia6)	ita m(e) ab ea astute video labefactarier
TD FY CLAS	E 15 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ter. Hau. 432 (ia6)	meŭs venit? :: dixi. :: camus: duc m(e) ad eum, obsecro.
Ter. Ph. 718 (ia ⁸)	rem ipsam putasti. :: duc m(e) ad eum ergo. :: non moror.
	:: ubi hoc egeris
BI 6 (8)	· ·
Pl. Cas. 1002 (tr*)	n(e) ut cam amasso, sí ego umquam adeo posthac tale ad-
	misero
	miscro

In these lines, the monosyllabic sequences with elision are followed by disyllabic pronouns ($\ell a m$, ℓa , etc.), the second syllables of which are in turn elided by the following initial vowels; thus, e.g. Pl. M m, 9s, ..., m(s) $d d \ell a m$) u t. True, pronouns of this type could be scanned as monosyllables by synizesis (thus $\epsilon a m$, ϵa , etc.). I fone follows this approach to scansion, one might posit prosodic hiatus between two monosyllabes; at the same time, however, one would have to assume quite crosive elision of these pronouns, perhaps yielding a sequence like ... $m \ell$ | $\delta d \ell$ ($\epsilon a m$) s t..., or some sort of complicated slurring, such as ... $m \ell$ | $\delta d \ell$ ($\epsilon a m$) ϵt ... which seems less likely. Thus the odds of elision become still greater (ℓt ... $p \ell$ = $p \ell$ 4 cases.)

Note also that there are a number of cases (ca. 120) that are more or less ambiguous as to whether prosodic hattus or elision is involved in the scansion (not listed here for reasons of space). Attempts in previous literature to specify cither of these based on syntactic, semantic, and/or metrical factors have tended to add more cases of elision (cf. nn. 7 and rt). Therefore, the ratio of occurrences of prosodic hiatus would become even lower.

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Pl. Trin. 265 (an3)

Ter. Ph. 476 (ia8)

Normally both st-type and sam-type monosyllables are treated as forming a single category with regard to clision and prosodic hiatus (cf. Wagner 1876:69 and Petz 1890:1). But our survey of the actual data seems to differentiate these two types from each other, at least to a certain extent. We should seek to identify the underlying factor that accounts for this distrinction, if there is one.

The phonological sequence consisting of a st-type word followed by (b)t- reminds us of a famous phonological treatment in Latin, the so-called "vocalis ante vocalism corription" rule: c.g. prdaws' great-grandfather" (< "pro-arrais) and diamnat 'loves ut-trip' (< "dia-amnat)." As suggested by Questa (1967:88), prosodic hiatus amounts to a word-external application of the rule, whereby two short vowels emerge as in Pl.

As. 98 ... st 1 th hodse... The first of these vowels, however, may be climmated by elsion in some other cases, as Soubiran (1995, 20, 22) claims that short vowels are more easily elided than long vowelst' due to their fingle monomoracity as well as their inherent irregularity: there are no monosyllabic words that end in short vowels in Latin.³¹ This means that the sequence consisting of si-type word + (b)t-c, even if it partially avoide sleision and results in prosodic hiatus, may still end up with full elision. In other words, whether directly or indirectly, si-type words tend to be elided, which seems to speak to the apparently lower frequency of prosodic hiatus for this group of words.³²

On the other hand, we can explain the infrequency of elision for sum-type monoyllables followed by (h)V. by assuming that the prosodic hiatus that results from such cases does not consist of two short wowls in direct succession. That is, a densaslization of ·Vm together with some sort of retained (or revived) phonetic presence of ·nay separate the two short wowls, as Soubiran suggests (1993;5, 5, 11.6);8 or as to impede elision. This process is exemplified by forms like circumago drive around and circumago 'go around'. Although Sturtevant and Kent (1913;145-7), 15) resort to Quint. 9.4-40 in claiming that the final -m was regularly lost, Quintilan's expression "tu in cam [vocalem verb sequents] Passaray possit" (my emphass) is not incompatible with the idea of densalization of vowels and subsequent consonantal realization of nasals at least in some cases (see also Riggsby 1991;38 ft. 37). Corssen (1870:790-1) already also dissociates ·Vm (h)V· from ·V (h)V· in general and contends that the final -m in the former still maintained some phonetic independence, though weak, based on the same passage of Quintilian ("ineque...eximitur, sed obscuratur..."), II truss follows that final -m plays a pivotal role in blocking two short vowels in prosodic hatus from further clision.

4. What we have seen indicates that the dramatists' creativity was restrained by linguistic factors to some extent. Communicative vagueness tended to be avoided in the performance of their plays by means of prosodic hatus, whereas certain phonological conditions tended to impose elision. It may be that the dramatists recognized such factors and sought to be in harmony with them in drafting their plays.

We have confined ourselves to examining monosyllables followed by monosyllables in Plautus and Terence. The results of this study may be useful for more extensive research on clision and prosodic huatus that also deals with polysyllabic words³³ or with other authors, to determine whether the same sort of picture or a different one comes into view.

References

- Allen, W. Sidney. 1973. Accent and Rhythm: Prosodu Features of Latin and Greek. A Study in Theory and Reconstruction. Cambridge, UK: Cambridge University Press.
- 1978. Vox Latina: A Guide to the Pronunciation of Classical Latin. 2nd ed. Cambridge, UK: Cambridge University Press.
- Barsby, John (ed.). 1999. Terence: Eunuchus. Cambridge, UK: Cambridge University Press.
- Brunner, Linus. 1956. "Zur Elision langer Vokale ım lateinischen Vers." Museum Helweticum 13:185-92.
- Christenson, David (ed.). 2000. Plautus: Amphitruo. Cambridge, UK: Cambridge University Press.
- Corssen, Wilhelm. 1870. Über Aussprache, Vokalismus und Betonung der lateinischen Sprache. Vol. 2. 2nd ed. Leipzig: Teubner.
- Deufert, Marcus. 2002. Textgeschichte und Rezeption der plautinischen Komödien im Altertum. Berlin: Mouton de Gruyter.
- Drexler, Hans 1967. Einfuhrung in die romische Metrik Darmstadt: Wissenschaftliche Buchgesellschaft
- Fink, Robert O. 1969. "A long vowel before final m in Latin?" American Journal of Philology 90:444-52.
- Fleckeisen, A. 1850-t. Review of Fridericus Ritschelius [Friedrich Rutschl], T. Macci

^{*6&#}x27;The range of the rule's application is wider than exemplified above e.g. fides (fides 'trust' and fide < *fides' I weep' (cf. infin. fitere), which are simplex words with long vowels that undergo the rule</p>

¹⁷Cf Platnauer 1951 73 and Brunner 1956 191-2

³⁸ See Kurylowicz 1949 27, Soubiran 1995'55, and Ryan 2012'166.

²⁰Cf. Hellegouarch's research on elisson in the hexameter (1964;242-8), which reveals that personal pronouns of a ciric nature are the most prone to this phonological process. The same scenis to be true for our corpus (in view of the relative frequence of elisson for me, m., £, and hi) See also Ruggisty 1907;38-40.

⁶⁰For phonene details on consonantal -*m*, cf Fink 1969 451, Nyman 1977:115-9, and Riggsby 1991:331 n 10, 338 n 37

[&]quot;Note that Coessen goes so far as to exclude Vm(h)V from his discussion of prosodic hiarus, since it is not exactly "vocalium concursus" (Quint. 9.4.33).

¹⁶ It can be predicted that monosyllables followed by polysyllabic words tend to host elision due to lesser degree of learnal condensation in phonological feet. This matches the description in Soutaran 1994 21 for, e.g., t(c) hidde and m(c) spire.

- Plauts Comoediae, vol. 1 (Bonn: Koenig, 1848). Neue Jahrbucher für Philologie und Padagoguk 60:234-63, 61:17-66.
- Gratwick, A.S. (ed.) 1993. Plantus: Menaechmi. Cambridge, UK: Cambridge University Press.
- Gratwick, A. S., and S. J. Lightley. 1982. "Light and heavy syllables as dramatic colouring in Plautus and others" "Classical Quarterly 32:124-33.
- Hammond, Mason, Arthur M. Mack, and Walter Moskalew (eds.). 1997. Plantus: Miles Gloriosus. Cambridge, MA: Harvard University Press.
- Hayes, Bruce. 1995. Metrical Stress Theory: Principles and Case Studies. Chicago: University of Chicago Press.
- Hellegouare'h, Joseph. 1964. Le monosyllabe dans l'hexamètre latin: Essai de métrique verbale Paris: Klincksieck.
- Kurylowicz, Jerzy. 1949. "Latin and Germanic metre." English and German Studies
- Lindsay, W. M. 1922. Early Latin Verse. Oxford: Oxford University Press.
- MacCary, W. Thomas, and M. M. Willcock (eds.). 1976. Plautus: Casina. Cambridge, UK: Cambridge University Press.
- Merrill, Frank R. (ed.). 2002. Plautus: Mostellaria. London: Bristol Classical Press.
- Mester, R. Armin. 1994. "The quantitative trochee in Latin." Natural Language and Linguistic Theory 12:1-61.
- Nishimura, Kanchiro. 2010. "Chronology between word-internal and word-final vowel reduction in Latin." *Incontri Linguistici* 33:167–78.
- 2014. "On accent in the Italic languages: Nature, position, and history." Studia Linguistica Universitatis Ingellonicae Crocoviensis 131:161–92.
- Nyman, Martti. 1977. "Mytacism in Latin phonology." Glotta 55:111-20.
- Parsons, Jed. 1999. "A new approach to the Saturnian verse and its relation to Latin prosody." Transactions of the American Philological Association 129:117–37.
- Pelz, J. 1930. "Der prosodische Hiat." Ph.D. thesis, Schlesische Friedrich-Wilhelms-Universität zu Breslau.
- Platnauer, Maurice. 1951. Latin Elegiac Verse: A Study of the Metrical Usages of Tibullus, Properties and Ornd. Cambridge, UK: Cambridge University Press.
- Questa, Cesare. 1967. Introduzione alla metrica di Plauto. Bologna. Pàtron.
- Riggsby, Andrew M. 1991. "Elision and hiatus in Latin prose." Classical Antiquity 10:328-43.
- Ryan, Kevin M. 2013. "Contextual and non-contextual prosodic minimality." In NELS 41: Proceedings of the Forty-First Annual Meeting of the North East Linguistic Society, ed. Yelena Fainletb, Nicholas LaCara, and Yangsook Park, vol. 2:165–78. Amherst: GLSA.
- Shipp, G. P. (ed.). 2002. Terence: Andria. London: Bristol Classical Press.

- Soubiran, Jean. 1966. L'élision dans la poésie latine. Paris: Klincksteck.
- —. 1995. Prosodie et métrique du Miles gloriosus de Plaute Introduction et commentaire. Louvain: Peeters.
- Sturtevant, Edgar H., and Roland G. Kent. 1915. "Elision and hiatus in Latin prose and verse." Transactions and Proceedings of the American Philological Association 46: 120–16
- Wagner, Wilhelm (ed.). 1876. T. Macci Plauti Aulularia. Cambridge, UK: Deighton Bell.
- Willcock, M. M. (ed.). 1987. Plautus Pseudolus. London: Bristol Classical Press.

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Replacing locus 'place' in Latin locuples

ALAN I. NUSSBAUM

1. A Latin adjective of the form locuples, locuples- meaning 'wealthy,' rich, sumptuous, ample'—applied to people as well as to buildings, cines, provinces, etc.—is directly or indirectly attested from what is essentially the beginning of the documented history of the language (Pl., Acc.+). Its sole derivative, a deadjectival -de-factitive—whose objects are also both persons and places—is locupletaire: -direct 'estatum' 'enrich', which is also found early.' Some examples of typical usages of the adjective and its derived verb (see OLD s.w.) are:

- Est Euborcus miles locuples, multo auro potens (Pl. Epud. 153)
 "There's a rich soldier from Euboca, with enough money to get whatever he wants."
- (2) ... cum in provincia tam locuplete ac referta non modo rem sed ne spem quidem ullam reliquam cusquam feceris (Cic. Verr. 3.48)
 - "...when in a province so wealthy and full to bursting you left everyone not only without property, but not even with any hope"
- (3) nil credo auguribus qua auris verbu divitant altenas, suas us awro locupletent domas (Acc. trng. 169-70) "I don't trust augurs a bit, who make the cars of others teem with words, so that they may make their own homes rich in gold."
- (4) nec interea locupletare amicos umquam suos destitit (Cic. Rab. Post. 4) "Nor all this time did he stop making his friends wealthy."
- 1.1. As an adjective descriptively showing a stem ending in -8: (no matter what its history), this word belongs to an extremely small morphological class, the only other members being quits 'at peace' (Naev.+), inquits' restless' (Sall.+), and mainsuis' tame' (Pl.-):

- (5) iamque eius mentem Fortuna fecerat queetem (Nacv. BP 47 W) "and by now Fortune had made his mind quiet"
- (6) agitur enim et laceratur anımı cupidine et noxarum metu, expers consili, mquius, înec atque ilu tempuna: ... (Sall Hist, ft. 1, 77.11 (Dr. Phil.))
 "In fact he is driven and toetured by his psychological cravings and by fear born of his crimes, not sure what to do, restless, trying this and that ..."
- (7) reddam ego te ex fern fame mansuctem, me specta modo. (Pl. As. 145) "Pll turn you from beast to tame by hunger, just watch me."
- a. Exymological accounts of locupler- 'wealthy' are available.\(^1\) More specifically, there have been two main suggestions. Neither is compelling, however, and both are in fact open to serious objections.
- a.s. The first account operates with a proposed compound of the form *(si)loko-ple*, taken to mean 'replete with land(s)'. It has the normal Latin word for 'place' ('%toko-> loaus') as first compound member (FCM) plus a second compound member (SCM) explained—though not typically in detail—as from ple* 'fill' (plat, plete, etc.). The end oroduct was therefore 'replete with land(s)' and thus 'wealthv.'
- 2.X.X. A passive -ples-'filled'—of the right analysis, in any case—would be unexceptionable. That discussion, however, may be postponed (§7).
- a.r.a. It is not needed here because more than one consideration raises doubts about loss- explained as reflecting "stloko- (>losss) in a compound meaning 'replete with land(s)'.
- a.1.a.r. First, such an account crucially requires that *stloko-(>locus) could mean 'land(s)' of a landowner for purposes of this compound. But locus does not actually mean that in its attested uses.
- a. The closest loss comes to this is to denote a geographical, topographical or inhabited 'place' as a masculine, and a 'region' as a neuter plural—these being merely way scations in the semantic range 'room in general, point in space, spot, position, location, site, abode', etc.
- b. In fact, Latin speakers themselves even seem to have needed locus to be glossed 'ager' to make the "explanation" of locuples as 'full of land' intelligible:
 - (8) locupletes dicebant loci, id est agri, plenos (Plin. Nat. Hist. 18.11) "They called those who were replete with locus—i.e. with ager—locupletes."

In other words, locus simply does not mean ager 'piece of land'/agri 'lands' or fundus 'estate, farm' or humus 'earth, soil, ground, land' or praedium 'piot, estate' or solum

[&]quot;A special further development of 'wealthy' is 'reliable (as a surety or guarantor)'. So Cic. Orat. 172, etc., Lex Rubria de Gallia Cisalpina (CIL 1º 592) XXI.23 (49 BC). For more on this see \$3.1

²Whence locuplétator (Eutr.+), locuplétatió (Vulg.), locuplétabilis (gl.)

^{&#}x27;See LEW 1 (with older literature that sometimes proposes shightly different analyses) and DELL 5 v locapite; de Vaan 2008 s.v. -plot, Leumann 1977 275. See also Bader 1962:77 n. 117 and Lindner 2002 228 with still more references.

^{*}See again LEW 1, DELL and de Vaan 2008 s.v. looss, as well as Sommer-Pfister 186

'ground, land' or terra 'earth, land' or anything else that would have allowed a *(st)loko-plêt- to mean 'replete with land(s)'.

a.1.a.a. Full of, replete with land(s) to designate the 'wealthy' is not plausable Latin either. There is, after all, apparently no artested instance of expressions like "agri/agroum plenus or "agro/agris impletus/oppletus/repletus. Furthermore, X can apparently be said to be plenus 'full (of)' To (im-, op-, re-)plenus 'filled (with)' T in Latin only when X can actually contain T.'

a.1.a.q. Consequently, both the attested meanings of losses and the unlikelihood of 'full of land(s)' in the first place suggest that Latin authors' explaining losuples as 'loci plenus' yel sim. are folk-etymologizing.

a.a. The other frequently encountered explanation of lengths also makes it a compound of "(xi) loke (losus) and "»plin-(:-plire). This time, however, the all-important element is a FCM losu- in a meaning that the plural of the diminutive of losus can in fact have in attested Latin. More precisely, londus, which means 'small space, cell, compartment, pigeon-hole', etc., denotes, in its plural losuli, a "box divided into compartments", a "portable case', and—crucially for present purpose—a 'cash box'.

 (9) censeo...magnum condiscas hic in urbe cotidie lucrum assem semissem condere in loculos.

"I advise you to learn here in the city to stash your big penny-or-so profit in the cash box daily." (Varr. RR 3.7.11)

The idea, in other words, is that locu- in the compound locu-plēt- is a stand-in for loculi 'cash box' and that locu-plēt- meant 'filling the cash box' or perhaps 'full in the cash box'.

a.a.r. Here again (as in \$2.1.1), a SCM-plêt- (of more than one acceptable analysis) in a supposed *(st)loko-plêt- 'filling the cash box' or 'full in the cash box' would be formally and functionally acceptable, but can be discussed later.

2.2.2. And the reason that it is once again not immediately necessary is that *(st)lo-ko-representing eventual locali 'cash box' is implausible.

a. The meaning 'cash box' obviously depends on 'compartments'. The diminutive local is therefore indispensable. And it is clearly doubtful enough to require some serious demonstrating that diminutive locali can really be represented as FCM by nondiminutive '1stilele-

b. It may well be doubted whether cash boxes plus/minus the designation locals really existed yet when a compound with a presumedly archaic morphological type of SCM (i.e. -plēt-), as in the handbook accounts, was formed.

a.g. The result of considering the explanations of locuples that are on the books, therefore, is that both of them suffer from the same problem—i.e. the semantic obstacles to identifying *tlabe > locus 'place' as the first element of the word.

a. To be sure, other constructs using known lexical and morphological material to make up a Lat. locuplet-, still presumably a compound, that could plausibly mean 'wealthy' are imaginable.

3.1. For example, a proposal could be based entirely on the observation that locuples can qualify a guarantor as 'able to supply security; responsible, reliable':

(10) Samnitibus sponsores nos sumus rei satis locupletes in id quod nostrum est... (Liv. 9.9)

"We are reliable enough guarantors of the matter for the Samnites, as far as concerns what is in our power..."

The basic idea here would be to imagine 'local grandee' as the original meaning, with 'wealthy' as a semantic generalization from that, and then to invoke the "bgp+-"assess, money' of Fitt: bipppar 'payment' (: L. op- 'resources', etc.) for a possessive "stablo-h(o)pr-o- 'having assets in the locality' as the ultimate basis of longhit-. Two further assumptions would then be made, one phonological and one morphological. It would be supposed first that this "(sa)lobispro- 'having assets in the locality' was assimilated to "(st)lobisplo- and then that this, as an adnominal (in this case a compound) in -o-, was cligible for an independently supported type of descriptive expansion to -de- (6.75.a.), which yielded "(st)lobisplot-, whence, in the end, locapita-.

There are, however, obvious and fatal objections to this scenario. For aithough it does at least presuppose the right meaning for "saloko- 'place, locale', the rest of the pragmatics and semantics of this proposition are pure assumptions. The phonology, moreover, is problematical both in that an δ that would not be shortened by any demonstrable Latin sound law would be expected in the second syllable and because L...r could hardly be expected to assimilate to L...r or r... L^s

3.a. Alternatively, an attempt to procure a workable analysis by aligning a potential *ople* in (loc)uple* with opulents (Sall.+]) and opulents (opulentus) [Pl.+1] 'rich, well supplied, sumptuous*, etc. might, at first sight, seem worth undertaking. But no matter what is hypothesized as FCM, the formal problems that beset an association of *ople* with *opelent(o)- are formudable enough to counsel decisively against this line of approach. For whether *opolem* itself reflects *hop-m-(pln* (: Hirt.

^{**}CK. (Prox. 19)** ... plenior immicrorum ...* is the only exception offered by OLD (other than precisely the metances of exegencial "flors plenius" at soin at ususe here). But it is only an apparent one. It is perfectly possible to take immissionam here as a substantivated neut. pl and construe the phrase as "... fuller of entire."

^{*}See DELL 365 for references to passages from Cicero, Ovid, Nonius Marcellus, Pliny the Elder

See n. 1 abov

^{*}Sec, e.g., Sommer-Pfister 1977:161-2, Leumann 1977.231 (Itals: 1.: áls- > 1.: árs- in L. árs-in

happinant- wealthy") with dissimilation of *openent- to *opelent- (> *opolent-)," or goes back rather to *op-outer-, also dissimilated, but this time to *opolent- directly," it is difficult to see how the *op-(et-) of leaseplate could be the same thing as the *op(o)-l of *opolent- without cutting the *lent- of *opolent- in half (if it reflects *-uent-) or without anything to condition a dissimilation of *-n to -l- (if *opolent- reflects *openent-). And this is to leave aside the extreme difficulty of identifying a credible source of what would be a 8e- in such an analysis of locaplet-.

- 4. The state of play at this point in the discussion can therefore be simply and quickly described. The first element of locapita- is unlikely to be losus 'place', no matter how this ostensible compound is further analyzed and interpreted. For the second element, the traditional pits- 'replete' (pit-'fill') remains the default analysis. The obvious new goal here is consequently a "locus-free" solution that does, on the other hand, allow for pits- 'replete'. And what would be ideal is a phonologically and morphologically non-problematical preform—ideally supported either by independent Latin facts or by comparative evidence (if not both)—that should have meant something like 'replete with property, goods, possessions, assets, wealth, abundance', etc.
- 5. It would seem, in fact, that an ideal solution of this kind to the problem of the origin and history of Lat. Josephis 'wealthy' is acrually available. More specifically, this solution can be arrived at by hypothesizing that an Indo-Iranian word for 'abundance' that has apparently never been given a convincing etymology is inherited from a PIE substantive that had much the same meaning. The item in question is the one represented, first and foremost, by Volic rish.
- 5.x. This is a masc, noun occurring four times in the RV in meanings like 'mass', 'heap', 'throng':
 - (II) šikṣānaráḥ samsthéṣu prahāvān vásvo rāśɨm abhinetási bhūrɨm
 (4.20.8c-d)
 - "Den Männern gem nützend, in den Schlachten den Vorsprung gewinnend, bist du der, der zu einer grossen Masse von Gut führt." (Geldner)
 "Doing your best for men in the clashes, hitting the jackpot, you are the guude to an abundant heap of goods." (Jamson-Brereton)
 - (12) rånd dhårasi äghrme råso rädir ajduva i dhinato-dhinatah säkhä il (6.55.3) "Ein Strom des Reichtums bist du, eine Fülle von Gut, du..., der mt Bocken statt Rossen fahrt, der Freund eines jeden Liedersinnenden." (Geldner)
 - "You are a stream of wealth, glowing one, a heap of goods, you with goats as horses, the companion of every visionary." (Jamison-Brereton)

- utá sma väším pári yasi gónam índrena soma sarátham punānáh (9.87.9 a-b)
 - "Und du holest die Menge der Kühe ein, mit Indra auf gleichem Wagen, O Soma, wann du dich läuterst." (Geldner)
 - "And now while being purfied, Soma, you drive around a throng of cows in the same chariot with Indra" (Jamison-Brereton)
- (14) tríh sastis två marúto vävrdhäná usrá iva räšáyo yajñíyásah úpa tvémah krdhí no bhūgadhéyam (8.96.8 a-c)
 - " 'Zu dir (kommen) wir dreiundsechzig Marut wie die Kuhherden zunehmend, wir Opferwirdige nahen dir. Bestimme uns einen Anteil...'" (Geldner)
 - "[Maruts:] We, the thrice sixty Maruts, having increased you as ruddy throngs [= herds of cattle] increase, are deserving of the sacrifice. We reverently approach you. Make a share for us." (Jamison-Brereton)
- 5.2. There is related material in Iranian—for example, Pashto rydia (Ir. *rrksijd) heap!" And the consequence of this, of course, is an i-stem substantive meaning 'great amount, great number' that goes back at least as far as an I-Ir. *rikii- with some such meaning.
- 5.3. An etymology of räif-, etc. is, so be sure, on the books. The relevant root is said to be that of Ved. rai/min-, rai/min- 'rein, leash', etc. and rni-ani- 'cord, rope, halter' (: Fir. *min' bind')." Semanucally, that is to say, the idea is evidently that the meanings 'heap, mass' and the like for I-Ir. *min'-developed from something like "(bound) bundle!."
- 5.4. This etymology is semantically unconvincing. The contexts unequivocally demand 'Masse'/heap', 'Fulle/'heap', 'Menge/'throng' and 'Herde'/'throng, herd'. And the translations—including the epoch-making rendition into English by the honorand and her collaborator Joel Brereton'*—nowhere use anything like 'bundle'. And rightly so.

Instead, the Rigwedic passages artesting råti- (§4.1) support no meaning more elaborate or semantically derivative than 'great number' (for count nouns, as in nos. 13 and 14) and 'great amount' (for mass nouns, as in nos. 11 and 12)—or simply 'abundance' as an all-purpose translation. It is to be specially emphasized in addition, however, that the 'abundance' conveyed by radie' is specifically of wealth. This is clearent for rätifi, rätlim with ratrata and rataab' taspendent of goods' (nos. 11 and 12). But rätlim... gioniam' 'a great number of cows' (no. 13) matches too—if cartie are wealth, as they certainly seem to be, judging from such expressions as apmate 'topocytry in cartle' (13x RV) and,

PSzemerényi 1944 271-81

¹⁰ Livingston 2004 74-82.

[&]quot;See EWAsa 2.449

¹¹ See EWAsn 2.441

[&]quot;Sec, c.g., KEWAs 3.56, but also, again, EWAss 2.449.

¹⁴ Jamison and Brereton 2014.

e.g., gómat...híranyavat 'wealth in cattle...wealth in gold' (paired at RV 1.30.17).

And since the usráh...rāśńyah 'ruddy throngs' (no. 14) are also cattle, this is simply equivalent to rāśńyah...gómām itself.

It should also be noted here, however, that as long as *#46'- does in fact denote 'abundance (of wealth)', the semantics of the ultimately underlying root will not matter for the purposes of this discussion.

5.5. As a final point regarding I-Ir. **r&i-, it may be added that if this lexical item goes back to PIE, what can be back-projected from I-Ir. alone is a stem of the shape *(h_i)LB&i-, *(h_i)Lb&i- or *(h_i)Lo/eh_iAi- (L = r or I) meaning 'great amount, great number, abundance'.

6. A PIE stem of one of these shapes, in turn, that meant more or less the same thing as its putative I-Ir. reflex "rādis'- 'abundance (of wealth') 'can provide an immediate an immediate an unexceptionable explanation of Lat. hosphis- 'wealthy'. The idea would be to specify the preform as "(h_i)loki- 'abundance' and allow for this stem to be inherited into Italic, appearing in Latin as the first member of the putative compound continued by the word at issue here: a pre-Latin passive verbal governing compound (VGC) "loki-plis-'replete with abundance'.

6.1. Such a reconstruction, conveying the precise meaning of 'wealthy', as it does, and wholly consistent with the use of leasyles- to characterize both people and places, would be semantically ideal.

6.2. Phonologically, this hypothesis seems entirely workable.

6.a.v. As generally said, a P in a medial open syllable /_[+ habial] originally became [u] by "medial vowel weakening" in Latin. This reduction product, spelled both (i) and (u) early on, merged mostly with (ii), but often with [u]:

*ponti-fisks > pontufax (pontifex later) 'priest', "uiti-pard- > ninuperd- 'find fault', etc.
*mone-mento- > monumentum 'monument', "autem-d- > autumdar 'mention', etc.
*op-kapd- > occupiare 'grasp', "man(u)-habijā- > manubine 'moncy from booty', etc.
*optomo- > potumus (optimus) 'best', "utelmos > polumus 'we wart', etc.

In addition, a back vowel in the initial syllable of the word favors, though is far from guaranteeing, [u] > [u] as the ultimate outcome of such reduced vowels:

auceps, aucup- 'bird-catcher' vs. princeps, princip- 'chief' (both < *-kap-)
monumentum 'monument' vs. alimentum 'nourishment' (both < *-e-mentom)

6.2.2. In these standard examples, medial \vec{u} from $\vec{V}/$ _[+labial] occurs only where the original \vec{V} was in an open syllable. This means that a locuples- from *lokeiples- should

eoriginal V was in an open syllable. This means that a locuplet- from *lokiplet- should

As a general matter of Latin phonology, it is probable anyway that both "VMV" and VpHV themselves syllabified V.TIV- for purposes of reduction. *6 Though space limitations do not permit that to be argued here in detail, it can be noted that nouns in *Leulum (cubiculum 'bedroom', *ridiculum 'ploke', etc.) show an open-syllable weakening product (-F) together with pre-anaptyxis *kl- in OL forms like *rehicla* (Pl. Aul. 167+). Nor is there counterevidence. No **VMV- or **VpHV- ever shows a closed-syllable reduction outcome.

In addition, a morpheme boundary before a TL (obstruent + liquid) sequence condutioned .TL as the syllabification. This is clearly indicated by reciprocus 'moving back and forth' < "rek" e.prok" e - "rek" e.prok" e - "rek" e. prok" o - "vs. scatebras 'gush of water' < ".e.hras and the like.

Applying this syllabificational hypothesis, with its implications for weakening ourputs, to "labi-pie", it would be clear that this preform, as not merely a "-\(\frac{\chi_0}{P_0}P_V\)-case, but also a morphological "labi-pie" with a compound boundary before synchronically transparent -pie" 'repletet', should have been syllabified "labi-pie".

This, in turn, would have been eligible for the [CV,] > [Oh.] treatment before the markedly labral and rounded sequence [pt] (i.e., p plus "pingust") and thus to have resulted in [lobse]. The eventual merger of [u] in this word with [u], as happened also in vituperia, monumentum, occupia, volumnus, etc., as above, would naturally have been favored by the first-syllable back vowel of four- as well.

7. If the point of the present exercise is to frame and evaluate an overall hypothesis in which Lat. locuples is to be explained as ultimately going back to a compound meaning 'replete with an abundance (of goods, possessions, wealth')', there remains the issue of choosing an analysis of SCM *pile* with passive value 'filled, full' (: -plere 'fill'). There are several theoretical possibilities to be weighed.

7.1. One of them is that of recognizing an unsuffixed root-nominal *plath, that would have given 1a. -plas as the nom. sg. of this compound, and then supposing that this -plas served as the pivot form for the creation of a secondary -plas stem.

at this -pies served as the pivot form for the creation of a secondary -pies- stem.
7.1.1. In favor of this, or at least consistent with it, are two considerations:

a. VGCs with root nominals as SCM are a well-established type, in which roots shaped -EH (with -EH/-H- ablaut in the paradigm of the VGC) have good representation. Illustrative examples from Vedic plus/munus Avestan are:

tamo-gå- 'coming out of the dark'; ruyi-då-, vasu-då- (= YAv. vanhu-ðā-) 'granting wealth'; sarva-dhå- conferring wholeness'; soma-på- 'drinking the soma'; rathesthå- 'standing in the chariot' (= YAv. ruðaē-štā-), etc.

more specifically reflect a preform syllabified *-i.pl- at reduction time. That requirement, however, poses no problem for the hypothesis being considered.

¹⁶⁰⁻ VolV-, more complicated, cannot be treated here. * VgW-, less complicated, need not be. Neither is directly nelwant to *-VgW-.

[&]quot;See de Vaan 2008 s.v. 10-, 11d- with the reference to Dunkel 1979.

¹⁵See Leumann 1977:87-90, Meiser 1998:68, Sommer-Pfister 82 and 88, Weiss 2011:118.

-and most especially for present purposes

RV carsani-prå 'filling the territories', ratha-prå- 'filling the chariot' (and others), with -prá- < *-pleb -

b. Furthermore, SCM nominals in VGCs do in general show descriptive passive value in addition to active. 18

RV ntthá- 'leading, guidance' : su-ntthá- 'leading well' (1.35.7+) vs. 'well led' (8.46.4+), su-śrótu- 'hearing gladly' (1.122.6) vs. su-mántu- 'good to contemplate' (10.12.6+)

Gk. βλάβος 'harm' : ἀβλαβής 'harmless' (A.+) vs. 'unharmed' (Sa.+)

And this does not fail to apply to SCM root nominals in particular:

RV hiranya-vi- 'wound with gold' (8.65.10), vi-stir- 'spread apart' (1.140.7), prittarywj- 'yoking early' (1.22.1) vs. 'yoked early' (10.41.2), Gk. ἄ-ζυξ 'unyoked' (Ε., Bacch., Eup. +1

-including those of the root shape in question here):

(*)indra- $p\dot{a}$ - $\rightarrow indrap\dot{a}$ -tama- (9.99.3) 'most/best drunk by lndra"

7.x.2. In the end, however, this is not a satisfactory analysis of Lat. locuples. For it would encounter at least three obstacles.

7.1.2.1. Latin has no convincing examples of other VGCs with an unextended root nominal from an -EH root as SCM. This is significant because it cannot be assumed by default that that type-though not rare in I-Ir.-should be expected in any other given branch of the family. It is to be noted in a general way, for example, that the Vedic SCM -jñá- corresponds not to Gk. *-ywa-, but to -ywar-,20 whatever the correct analysis of that may be:

Ved. rta-jñá- 'knowing the truth' vs. Gk. à-pwir- 'unknown' (Hom. +), 'unknow $ing^{2}(S, +)$

More particularly, however, it may be observed that the Latin correspondent of

a compound of the Vedic sarva-dhá-, tamo-gá-, soma-pá- type (\$7.1.12) always shows one or more alternative SCM morphologies:

Vcd. $dh\dot{a}$ - vs. L. $-do-<*-d^hh_1$ -o- (e.g. algidus 'cold' $<*h_2(e)lgi\cdot d^hh_1$ -o- 'chilling')²¹ Ved. -sthå- vs. L. -sto- < *-stb2-o- (cf. praesto 'ready') and -stes, -stst-22 (e.g. praestes 'guardian')

Ved. -jñá- vs. L. ignötus 'ignorant' (Naev. +), 'unknown' (Pl. +)

7.x.a.a. A nom. sg. *-ples as the hypothetical pivot for the shift of a *-ple- to a -pletstem cannot be taken for granted, since it is not clear at what stage a nom. *-ples would have been ambiguous. If *-ess < *-ess lasted as long as -ess < *-ess,23 a switch from *-pleto -plēt- as the synchronic analysis of the stem would be too late to be plausible.

7.1.2.2. A second drawback to a reconstructed *-pleh1- is that although actual adnominals/adjectives in -#- would be crucial as models for reanalyzing an -#- stem nom. *-ples as an *-et-stem nominative, Latin adnominal -et-stems (unlike -et-stems) are rare, secondary, and relatively recent.

a. As indicated at the outset (\$1.2), the relevant items amount to only three: quies 'at peace' (Naev.+), inquies 'restless' (Sall.+), and mansues 'tame' (Pl.+).

b. What is notably suspect here, of course, is that two of these items-quies 'at peace' and inquies 'restless'-are antonyms, while the third-mansues 'tame'-is almost a synonym of the first. This all but demands an integrated or even simultaneous explanation of all three via some development(s) within this tiny and semantically very restricted group.

c. Such an explanation can in fact be devised. It would start with the observation that one of the three members of this set-namely quies, quies-'tranquil'-looks, on the surface, like a rare and odd adjectival usage of the very frequent and familiar noun quiës, quiës- 'tranquility', which has the same stem. And since this suggests, all things being equal, that adjectival quies, quies- is somehow secondary, it can provide a way of accounting for all three -#- adjectives in a coherent set of four hypothesized developments:

- Step one would be the formation of inquies 'restless' (though attested later [Sall.] than the others24) as a privative bahurribi to quies 'tranquility', with the expectable meaning 'without tranquility, restless'.
- This inquies 'restless' was then reanalyzed as a determinative privative of the frequent type indignus (Pl.+) 'undeserving' (: dignus 'worthy'), înfêlix

¹⁸ See Wackernagel 1905 175-6 and Scarlata 1999 737-9

¹⁹Such at least would be the unforced analysis. An alternative is available, but at the cost of additional assumptions (for which see Scarlatz 1909:739).

²⁰Greek may, however, have inherited a *-still- (< *-steb₃) corresponding to Vedic -sthill and Av. -still-, as in \$7.1.1a above. See Leukart 1994-157-60.

²¹ See Balles 2004:21-6, Hackstein 2002 16-7.

²²On this type see §7.3.2b below.

³¹ Sommer-Pfister 203-4, Weiss 2011:170.

²⁶But note that synonymous inquiêtus (plus inquiêtăre, inquiêtudê) is markedly late as well (Hor, Liv +)

- (Enn., Pl. +) 'unfortunate' (: fēlix 'fortunate'), impotêns (Ter. +) 'powerless' (: potêns 'powerful'), etc.
- (3) To inquies 'restless', once reanalyzed as a determinative privative with adjectival quies, was back-formed the actual simplex quies 'at peace'.
- (4) Finally, the analogical proportion quiéssere 'calm down': quiëtus 'tranquil': quiés 'tranquil' = m\u00e4nsu\u00e5sere 'become tame': m\u00e4nsu\u00e5tus 'tame': X produced m\u00e4nsu\u00e5s' trane'.
- d. This account of guits 'at peace', inquits 'restless' and mānsuts' 'tame' is relevant in two ways to the analysis and history of locuple's 'wealthy'. On the one hand, it tunderlines the minuteness of the category—namely—#a adjectives—to which locuple belongs. At the same time, however, it isolates locuples even within that class, since it stands apart semantically from the other three of the group. This is something to which the discussion will obviously have to return (§7-a).
- e. In the end, at any rate, it is difficult to point to any actual forms that could have supported an early reanalysis of a putative ê-stem nom. -ples as -ple(t)s. Alternatives are therefore welcome.
- 7.2. One such would be to assume a VGC again, but with SCM of the s-extended root noun type. This amounts, more specifically, to invoking the familiar inherited morphology seen in:

Ved. viśra-ji-t- 'conquering all', deva-stú-t- 'praising the gods', jyotu-kṛ-t- 'creating light'²⁵

Av. asom-stu-t- 'praising rightness', as-boro-t- 'bringing much'16

Hom. περι-κτί-τ(η)- 'ncighbor(ing)' (: Ved. pari-kri-t-),²⁷ and therefore also (at least as a type) Ba. + μηλο-θί-τ(ā)- 'sacrificing sheep', Hom. πιλ-άρ-τ(η)- 'gate-fastener'

Notably for present purposes, examples of this type are also found in Latin;28

com-i-t- (Pl.+) 'companion', ped-i-t- (Cato+) 'foot-soldier', possibly trā-mi-t- (Pl.+) 'path, course' (: meāre 'travel' < "h₂mei-), aus-cult(ā)· (Pl.+) 'hcat' (< "h₃aus-klu-t- 'ear-hearing [?], listening')

7.2.x. That VGCs with SCMs of this exact type can have passive value (cf.

\$7.1.1b)** is demonstrated by such cases as RV ditgha-frit-t 'heard from afar', \$B manusi-els-' perceived by the mind'. And the earliest Greek instances of a series of these compounds that are at least generally reconstructed with SCMs of the shape *-CRHs- are in fact more often passive than not:

Hom. $\hat{e}m \cdot \hat{g}h\hat{\phi}_{1} \cdot \tau$ -bolt (thrust into a socket)', $neo \cdot \hat{g}h\hat{\phi}_{1} \cdot \tau$ 'thrown forward, projecting' as if $< \frac{n}{2}\sigma^{\mu}h_{\mu} \cdot \tau$, $\hat{e}_{2}h\hat{\phi}_{1} \cdot \tau$ 'unsubduced', $neo \cdot \partial_{\mu}\hat{\phi}_{1} \cdot \tau$ 'newly tamed' as if $< \frac{n}{2}d_{\mu}h_{2} \cdot \tau$, $\hat{e}_{3} \cdot \gamma_{2}\hat{\phi}_{2} \cdot \tau$ 'unknown' (act. only later: S., Xen.), at least potentially as if $< \frac{n}{2}d_{\mu}h_{2} \cdot \tau$.

7.2.2. Consequently, a compound of the shape "(b_bbi-plh,-is filled, replete with abundance' could be considered as the preform of lossplits, as far as we have seen so far. It would only be necessary to assume in addition (1) that "plh,-is nominalizes a passive (filled [with]) or middle ('[having] filled up [with]) value here and (2) that the "pldits which would have been the regular reflex of "plh,-is was redone as -plds- in assimilation to -pltits, pletum 'fill', just as happened in the familiar case of pltitus for "plditus (s" plb],-is (1) Ved. pltitus (s" plb,-is (1) Ved. pltitus (s" plt

7.2.3. As is also well known, however, rextended SCMs of the type now under consideration are constrained by the shape of the root from which they are derived. A conspicuous and potentially significant part of the picture, moreover, is that the constraints seem to vary from language to language.

a. In I-Ir. aimost all examples are -C(C)i-i-, -C(C)u-i- or -C(C)r-i- (as above in \$7.a). There are a few cases of apparent -C(C)N-i- (like AV adina-gd-i- 'traveler'), but these are rare and secondary.

b. Greek matches 1-Ir. with -C(C)i-t- and -C(C)i-t-. (\$7.2). Beyond that, -C(C)i-t- is often supposed, at least, to be exemplified by Hom. δδινή-φωτ- ("-g)^m(t-t-) 'pain-killing' and πω-βωτ- ("-g)^m(t-t-) 'sheep." It should obviously not be ignored, however, that the SCMs in *-CRH-t- that are standardly assumed for Greek (\$7.2.1) really have no match elsewhere. ¹⁴

c. In Latin reself, -C/C/pi+- and -C/C/pi+- matching indo-Iranian and Greek do put in an appearance (\$7.2). In addition, indirect evidence of -C/C/pi+- may possibly be supplied by other, shors- (1) if the semantic history of this word is something like an original nomen actionis or rei actae meaning *'(a) comprision' that developed to 'an enclosure' on the one hand and 'a contingent (of soldiers)' on the other, and (a) if it ultimately reflects a compound with second member **\frac{\psi}{\psi}*\frac{\psi}{\psi}*\frac{\psi}{\psi} \text{ foroit of horsis' garden'}

³⁵RV examples collected at Scariata 1999:732.

²⁶ Duchesne-Guillemin 1936.61-2. A collection and discussion of all the Avestan examples of this type at Kellens 1974. 114–446.

²¹ Leukart 1994.47, 66-7, 134, 269-87

²⁸ Leumann 1977 393, Weiss 2011 303.

²⁹ See Wackernagel 1905 175-6, Debrunner 1954 7-8, Scarlata 1999.737-9

¹⁰ Debrunner 1954:41-3.

³º Risch 1974,196.

¹⁰ Roots putanvely making SCM *-CRH++ consistently choose an alternative in l-fr... *-CR(E)H- (\$7 1 (2) or *-CR(E)H- (\$N' train-gred-'swallowing mighthly' < *-g"η"(h), θ , etc. [\$7-3b]) or *-CR(E)θ (\$N· fracture-'going forth' < *-P"al(h)-ψ-, etc.). They sometimes do so even in Greek (νανγώς 'baby' < *-g'n(h)-ψ- and others (cf. \$7-3-1a])</p>

<*'enclosure', OIr. gort 'field', Hom. χόρτος 'enclosure, court' < *ghor-to-) rather than *-gh²r-ti.

On the other hand, ~G(C)N + is not guaranteed by recens, recent-'new', which could perfectly well continue a proximate *hen-ti- (with either a zero-grade *hen-ti- natched by that of Olr. eti 'first', MW om' before' c *hen-to-). Nor is a SCM *-CRII-* especially likely to be reflected by prox-gradis, *gradis (Naev. +) 'preg-nant' (as if < *ghh, +)." Excellent seraunties can be obtained by supposing a possessive compound *prai-gradis'- with birth in front (of ther); 'sh' to which may be compared (as an *is/hen' compound with the same FCM) prae-cipit- 'with head in front (of one-self), head-first'. The putative *-sthy-to- of antistee, *stis- 'priest' et sim. will be addressed below (\$9.3, 2.6).

7.2.4. The conclusion regarding this approach must therefore be that the absence of a SCM type *-CRH+- in Latin obviously makes *-plh,-t-> *-plat->>-plet-(\$7.2.1) unsatisfactory for (low)-plk:

7.3. Another analysis of -plēt- can be had by invoking an independently supportable combination of two known stem morphologies.

7.3.1. The first of them is the VGC SCM type -Root(zero)-o-.30

a. This occurs in a number of branches of the family:

Ved. gav-is-á- wishing for cattle', á-kr-a- 'inactive', go-ghn-á- 'killing cattle', valam-rui-á- 'breaking open the hollows', etc.

Av. amaē-ni-γn-a- 'striking down in an onslaught'

Gk. (τὰ) ἔπι-πλα 'movable goods' (*-k*lfb1-0-), λὶπφος: ἀεινός, i.e. 'prodigious"? (*-bʰ/uh.j-0-), νεογνός 'baby' (*-βπίħ.j-ό-)

Lat. privignus 'step-son', bignae 'twins', benignus 'good-natured' (*-fn[h]-o-), probus 'upright', superbus 'haughty' (*-b^h[uh]-o-), pervicus 'persistent' (*-uih-o-|: vinos|)

b. SCMs of this form are particularly commonly made from -EH roots:

Ved. rwyi-dd- 'granting riches' (*-dh₂-o-), madhu-dhú- 'bestowing madhu' (*-gh'₂-o-), go-pá- 'protecting cartle' (*-ph₂-o-), madhu-pá- 'drinking madhu' (*-ph₂-o-), kama-prá- 'fulfilling desires' (*-plf₀-)-o-), rathe-ṭthú- 'standing in the charioe' (*-sth₂-o-), etc.

c. Descriptive passive value for the type can be illustrated by a number of examples:

Ved. an-ava-bin-á- 'not to be carried off', pari-mi-á- 'sharc' (: naí 'reach, attain')

Gk. ὕπωφος 'cast down' (*-bʰr-o-), ' μεσόδμη 'tic-beam' < *'built between'
(*-dm-o-)

Lat. probrum 'reproach' (*pro-bhr-o- 'objected; objection')

7.3.a. The second nominal derivational type relevant to the account of locaplesnow under discussion is a semantically endocentric-êt-typically used with adjectival or more generally adnominal—bases: adnominal-o-stem o-substantivizing-êt-derivative (frequently >> adnominal again as a "week adjective").⁴³

a. Examples of such derivatives from simplex adnominals include:

Gk. ἀργός 'shining' → ἀργής, ἀργέτ- 'id.'

ing'; cf. \$7.1.2.1)

γυμινός 'unclothed' -> γυμινής, γυμινήτ- 'light-armed foot-soldier'

Ital. (*dijeuo· >) *dijeo· 'brilliant' (L. dium 'daylit sky', cf. O. Diíviiai) → *dtuet- > L. dives, divis· 'rich'

PIE *steipo- 'rigid' (Gmc. *steifa- 'stiff' [OE, MHG stif]) \rightarrow *steipe-t- (L. stipes, stiput- 'stick. stake')

PIE *h₁uog**b'- 'vowing' (: L. vovēre, etc.) → *h₁uog**b'- > Ved. vāghāt- 'priest'

b. From adnominal compounds some illustrative cases are:43

PIE *-sth₂-o- (Vcd. prats-sthá-'resistant', Lat. praestő, ctc.) → *-sth₂ĕt- (Av. haŋ'harznāt-'staving in hiding', Lat. anti-stst. -stit-'priest')

PIE *-k"ol(h_t)-o- (ἀμφίπολος 'busy', Lat. anculus 'scrvant', Av. fra-cara- 'going forth')

→ *-k"ol(h_t)kε- (Av. fra-carāε- 'going forth', cf. rauuas-carāε- 'roaming the land')

¹⁸Nussbaum (1999 396) is too ready to accept *-fmb₁ t- as a viable reconstruction.

⁴⁵⁰ Schwyzer 1929.10

¹⁰On meerido, -dot-, which may easily be analyzed not as a genuine t-extended SCM of a VGC, but rather, as possibility among others, as a bubworlse that happens to have a simplex t stem as its SCM, see Nussburn 1999 397-3 with further references (n. 10-3), to which add Strink 1994.

³⁶Wackernagel 1905;174, Debrunner 1954 69-81 (samples mixed in among simplex R(xerv) → cases), Duchesne Guillemin 1936.22 and 66, Schwyzer 1939;449, Leumann 1977;394-5, Weiss 2011;272.

For the FCM of \(\lambda\) (Hom. +) 'exceedingly, overmuch'.

Gk. äpγsbeς 'bright-looking' (**β^bh, »), ³⁸ åpγsbe; 'good (of kmd)' (*†ηβh, 4thh, e-'doing great things, dong much'), ⁷⁰ λαῦσθος 'at the end, honging up the ref. (*FGk. *†labis xthe-; cf. Gme. compar. *†lais-iz-'less' [OFr. lɛ¹], superl. *†lais-sta-'less' [OE (Kent.) lærsta, OFr. lærst, ¹40 implying a positive adjective **laiss-'llat. pratero' result (**sub, »), suffixal -idsu- reg., pidlatis 'cold' (*†pl.4-thh, »).

¹⁶ Heidermanns 1996, 270.

¹⁹Or, less semantically satisfactory in my opinion, 'eminent' with a passive *-d*h,-o-? See, e.g., Balles 2003:16 and 22 with references to previous hiterature

⁴⁰ See Heidermanns 1993 348, Schaffner 2001 348-9

[&]quot;invadeov ous, even 'keeping his eves downcast' (E. Rh. 711).

^{*1}Schindler 1976:331, Nussbaum 2004 \$\$2.2-2.3. The analysis in which these compounds have * & specifically from * e (a/c)*. differs therein from that of Kellens 1974:253-9.

⁴³ See Nussbaum 1999.414 (n. 101), Nussbaum 2004. \$2.3.

Pre-Lat. *-poro- ([per-'go)': Gmc. *fam- > Go., etc. faran] L. perperus 'perverse'

[Acc. +], perperum 'wrongly' [Pl. +]) → *enter-p(o)rer-'go-between' (L. interpres,
-pres-'messenger')

7.3.3. In line with the derived formations just mentioned—i.e. endocentric -&-derivatives of o-stem adnominal compounds—it would seem unobjectionable to hypothesize the following origin of lossible:

PIE *-pl(h₁)-o- (Ved. kāma-pri-, Lat. manu-p(u)ius 'filling the hand' > 'handful' [Cato+])^++ \rightarrow "(h₂)loĥ-pl(h₁) δ t- 'replete (pass. *-pl[h₁]-o-) with abundance (*[h₂]loĥ->] > I-Ir. **rāć-')'

The second member of this reconstructed compound (i.e. *-pl[h]-fe-'full' derived from *-pl[h]-fe-'full') may even have an exact correspondent in Greek, where a reconstruction of that kind can immediately supply a semantically apposite analysis of the otherwise difficult and much belabored epithet δασιδής, πλής- (whence also δασιδής), used of terrifying entities as the Erinyes, Charybdis, and Hecate, among others:

PGk. *das- 'mayhem, destruction' (loc. *dah-i: Hom. έν δαΐ 'in combat'), *5 plus *-pltr- 'full' (< *-pl(h)) \hbar -) \rightarrow δασ-πλήτι- 'full of destruction' > 'ruinous' (δασπλήτα Χάρυβδιν Simon.). *46

7.4. Though this account of the plēt- in locuples seems entirely workable, another one may be too.

7.4.1. Along with an explanation of the form itself, it would be desirable to come to some understanding of two peculiarities attaching to the situation of *locuples* in Latin overall.

a. As already mentioned (§7.1a.2), the class of Latin -8- adjectives other than becupits comprises only inquisit 'restless', quitie' it peace', and manue's 'tame'. The first of these—inquisit—was analyzed simply as a bahavarbir with the -8- stem noun quisit—as SCM, while the other two—quisit and mainsus —were explained as purely secondary analogical cerarrangements of quisitus and mainsustus, respectively (§7.1a.2a.7). This rather unitary picture suggests asking whether locuplis might not be made to conform more closely to the rest of the category of forms to which it belongs. And since there seems little chance of accounting for locupits as a bahavarbir, the question becomes that of whether the form—although it can be explained quite unobjectionably as a rather old—8-stem derivative of the kind just proposed (§7.3.3)—might alternatively be explicable as a secondary creation altogether.

b. The deadjectival factitive locupletare 'enrich' (\$1.1) is also a notable piece of the picture. 47 Typical examples of the relevant derivational type include such instances as:

aeguus : aeguāre 'make equal' (Pl.+), clārus : (dējclārāre 'make known' (Pl.+), dēnsus : dēnsūre 'make dense' (Enn.+), firmus : firmāre 'solidify' (Pl.+), ignārus : ignārāre 'make lazpy' (Acc.+), latest : lateāre 'make happy' (Liv. Andr.+), mactus : mactāre 'honor' (Pl.+), mādus : nādāre 'denude' (Enn.+), obscārus : obscārāre 'darken' (Pl., Enn.+), pīss: pidare 'purify' (Pl.+), ecc.

But much less common—especially in older Latin—are cases of this type derived from adjectives that are not o-stems. And the number of such exceptional -#-factitives is even smaller than it might initially seem to be.

First of all, beside -a-factitives, which are a special inherited type (norma' new' -new' -newire 'renew' [Sall., Lucr. +]: Hitt. namabb-i 'renews'), "4 Latin has "essive" denominatives in -a- (namulus' emulous' and 'competitor' -a- amuluir' 'be emulous, be a competitor' [Pl. +], etc.) of a completely different origin, simply representing, ultimately, the generalization of the "a-faje' that was original in denominatives made to a-stem nouns (ancilla 'maidservant' -a ancillair' 'be an ancilla' [Tritin. +], etc.). This second, essive type, moreover, was widely generalized to bases of all formal classes (not only amulus -a aemulair as above, but also omors' in agreement' -a comordiare 'be in agreement' [Ter. +], etc.). Nothing, of course, would prevent a given o-stem adjective from making both an -a-casive and an -a-factitive (commonter 'buttable' -a commondarity' and 'capter' [Pl. +]). This means that any number of

^{**}Although the presentation is not quite unsimbiguous, Lcumano 1977:394 can be read as suggesting that manua/pi/slux arandogically made to piler on the model of, e.g., mersible drinkings unsimiled wine? bestde hieror, servi-ligate 'seusing secred property' beside lagare, busin-reput gause robbot's beside rappert, exe. Bits userly it is the "shine, "elgas" rapper species group from the contraction of the service of the contraction of the contra

^{*1*}dalngo- in dipor (Hom +), 'destructive', dipow 'slay' (Hom.+); cf. Myc. PN da-1-qo-ta, Ani-dofloc, etc. **Although the etymology of the first member of danthing and danthing is obviously not of crucial importance for present purposes, we may note Kölligan and Macedo's (2015:132-3, 138-48) argument that this FCM should instead be identified as a "diss- that is to be further analyzed either as the zero-grade allomorph of a root noun belonging with "dys-ro- (> Ved. dwnd- 'with wondrous power'), etc., or as a completely reduced s-stem from that same root-i.e. "https://. Of these two possibilities, it is probably slightly better to choose the second, since the s-stem is well established (Ved. slamas-'wondrous power' : Gk. hisea 'Igood. or evil] arts'), while there is no unambiguous independent trace of a root noun. Semantically, in any event, Kolligan and Macedo (2015,138-48) make a case for this FCM that is well worth considering. It is not at all ideal, however, to reconstruct *-plob₁-s- (with Kölligan and Macedo 2015;132 and cf. Nussbaum 1999;396 and 415 n. 107) as the preform of the SCM (both of dearths; and of lecuples). This already follows from what was pointed out in \$7.2.3c about the failure of r-extended root-noun SCMs to occur in Latin to roots other than those in zero grade final -s, -w, and, possibly, -r (in which Latin simply agrees with I-lr.). It is additionally problematic, however, to posit a full grade of the root (despite Nussbaum 1999;396 and 415 n, 107) - which is not supported even by the exceptional type represented by Greek (9aj-r., Junj-r. (57.2.1.1) plus, e.g., into-Βρώτ- 'eating raw flesh' (E. +) in a compositional stem of this kind. Among other things, it would almost demand inherited paradigms like *-steb₂-b-, *-stb₂-t- (ox *-stb₂-l\(\delta\)| to account for Av. hun'harz-stab- beside Lat. anti-nes, -stit- (\$7.2.2.2b), which would require special justification. The *-pl(b)-eb-e- offered by Kolligan and Macedo (2015 132) without further elucidation is not readily intelligible.

⁴⁷For the facts on which this section of the discussion is based, see Mignot 1969:247-305 and 370-80.
⁴⁸Sec. e.g., Weiss 2011-400.

-4-essives to athematic bases could have analogically acquired factitive value as well. And it is noteworthy that a certain number of the #-factitives that are made to nonthematic adjectives are at the same time -ā-essives (particeps 'partaking' -> participare 'be, make complicit' [Pl., Enn. +]).

In addition, as has not infrequently been pointed out,49 Latin i-stem adjectives are, at least to some extent, substitutes for older thematic versions. One may note, for example, tenuis 'thin' beside Gk. ravaós 'long, tall' (< *tanauó-) or gravis 'heavy' beside Osc. bravús (acc. pl. << *-ons) or, within Latin itself, OL mānus 'good' (Carm. Sal. +) beside CL mānis 'id.' (di manes) and cases like OL <fo>rctos (Fest.) beside forctes, forctibus (Fest.) and CL fortis. The open possibility that a given Latin i-stem adjective is a remodeled o-stem means, of course, that such -o-factitives as lovore 'lighten' (Enn. +) to levis 'light' or turpāre 'pollute, dishonor' (Enn.+) to turpis 'ugly, offensive' may either have actually been derived from a thematic predecessor, or were at least made on an -i- adj. -> a-factitive pattern that got its start from cases in which an o-stem. having served to derive the factitive, was replaced by an i-stem.

If, now going forward, i-stems (because they may directly or indirectly represent earlier -o-) and cases of -a-factitive beside -a-essive (which may have factitive value secondarily) are excluded, very few -ā-factitives in earlier Latin to athematic adjectives remain. One of very few left, however, is precisely locupleture 'enrich'. Another is synonymous diviture (Acc.+).30 And in such a situation it is natural to wonder whether this is perhaps not coincidental.

7.4.2. Both issues may perhaps be dealt with simultaneously by way of a scenario like the following, which can be sketched here only in its most concise form:

a. The starting point might be a reconstructed pre-Latin compound of the form *loki-plēto- meaning 'replete with abundance'. This would belong to a class of compounds-presumably inherited, at least as a type⁵¹-that is well represented in other branches, and can be exemplified by such forms as Ved. yajñá-vrddha-'increased by the sacrifice', Gk. πολύ-χωστος 'heaped copiously' (A.) and the like. Other instances of compounds of this kind in Latin itself are manu-festus 'caught in the act' (XII Tables, Pl. +), solli-citus (Enn., Pl. +) 'all agitated', etc.

b. From this the derivation of a deadjectival -#-factitive would be a trivial assumption: *loksplēto- 'wealthy' -> *lokiplētā- 'enrich, make sumpruous', etc.

49 See Leumann 1977:347, Weiss 2011:315 with further references

c. In parallel to the rearrangements hypothesized earlier (\$7.1.2.3c), wherein the ⁹⁰A third is the antonym of sorts infiliatre 'bring bad luck upon' (: infilix 'unfortunate'), used in imsemantically neighboring -to-stem adnominals quiëtus 'tranquil' and mansuëtus 'tame' were successively redone by synonymic interaction as the t-stem adjectives quiet- (because of inquiet-) and mansuet- (because of quiet-), it could be supposed that *lokspleto-'wealthy' was secondarily remade as t-stem *lokiplet-in imitation of the synonymous tstem *dinet .

d. Such a rearrangement would have left the exceptional derivational pairing *lokiplēt- 'wealthy' → *lokspleta- 'enrich'.

e. As the next step in this scenario, the pattern was imitated by a synonymous item, whence *diuet- 'wealthy' → *diuetā- 'enrich' > divitāre. 12

Abbreviations

DELL = Ernout, A, and A. Meillet, 1949, Dictionnaire étymologique de la langue latine: Histoire des mots. 4th ed. Paris: Klincksteck.

EWAis = Mayrhofer, Manfred. 1986-2000. Etymologisches Wörterbuch des Altindoarischen, 3 vols. Heidelberg: Winter.

KEWAi = Mayrhofer, Manfred. 1953-80. Kurzgefasstes etymologisches Worterbuch des Altinduschen. 3 vols. Heidelberg: Winter.

LEW = Walde, Alois and I. B. Hofmann, 1938-54. Lateinisches etymologisches Wörterbuch, and ed. 2 vols. Heidelberg: Winter.

OLD = Glare, P. G. W., ed. 1968-82. Oxford Latin Dictionary. Oxford: Clarendon Press.

Sommer-Pfister = Sommer, Ferdinand, 1977, Handbuch der lateinischen Laut- und Formenlebre, Vol. 1. Einleitung und Lautlebre, 4th ed. by Raimund Pfister. Heidelberg: Winter.

References

Bader, Francoise, 1962. La formation des composés nominaux du Latin. Limoges: Bontemps.

Balles, Irene. 2003. "Die lateinischen Adjektive auf -idus und das Calandsystem." In Indogermanisches Nomen: Derspation, Flexion, Ablaut, ed. Eva Tichy, Dagmar S. Wodtko and Britta Irslinger, 9-29. Bremen: Hempen.

Debrunner, Albert. 1954. Altindische Grammatik. Vol. 2, part 2, Die Nominalsuffixe. Gottingen: Vandenhoeck & Ruprecht.

de Vaan, Michiel. 2008. Etymological Dictionary of Latin and the Other Italic Languages Leiden: Bnll.

Duchesne-Guillemin, Jacques. 1936. Les composés de l'Avesta. Paris: Droz.

precations (Pi +). Otherwise one can cite only the factitives in -alactre of the type displacing 'double' (Pi

Naev +) to duplex, quadruplecire 'quadruple' (Pl.+) to quadruplex, etc. (perhaps favored by the descriptive

non facutives of the type com-pliante 'fold, tie up' [PL+], sm-pliante 'entwine' [PL+], etc.) and sospitate 'save' (Enn., Pl.+) to susper 'safe and sound', for its part a kind of antonym to the infelicine 'doom' mentioned just above See further in n 52 Antiquity for such compounds is at least highly consistent with the phonology observed in such cases as Ved derá-sta- 'god-given' < *-d(h2)-su- (Wackernagel 1905:98, e.g.)

⁹It may be worth noting, finally, that locuplet- 'rich' + locupletaire 'enrich' and synonymous diret- + divitore could have thereupon motivated, as in n. 50, infelte 'unfortunate' + infeltoire 'bring bad luck upon' as an antonym, with suprit-'safe and sound' + suspitaire 'save' as an antonym, in turn, to that

- Dunkel, George. 1979. "Reciprocus und Verwandtes." Indogermanische Forschungen 84: 184–95.
- Hackstein, Olav. 2002. "Uridg. *CH.CC > *C.CC." Historische Sprachforschung 115: 1-22.
- Heidermanns, Frank. 1993. Etymologisches Wörterbuch der germanischen Primärudyektive. Berlin: de Gruyter.
- —. 1996. "Der Ursprung der gotischen Adverbien auf -ba." Historische Sprachforschung 109:257-75.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda: The Earliest Religious Postry of India. 3 vols. New York: Oxford University Press.
- Kellens, Jean. 1974. Les noms-racines de l'Avesta. Wiesbaden: Reichert.
- Kolligan, Daniel and José Marcos Macedo. 2015. "Δαστλόγικ; 'Ερούς." Glotta 91:129–51. Leukart, Alex. 1994. Die frühgriedisischen Nomina auf -täs sund -äs: Untersuchungen zu whrer Herkunft und Ausbreitung (unter Vergleich mit den Nomina auf -cús). Vienna: Verlag der Osterreichischen Akademic der Wissenschaften.
- Leumann, Manu. 1977. Lateinische Grammatik. Vol. 1, Lateinische Laut- und Formenlehre. Munich: Beck.
- Lindner, Thomas. 2002. Lateinische Komposita: Morphologische, historische und lexikalische Studien. Innsbruck: Institut für Sprachen und Literaturen der Universitat Innsbruck.
- Livingston, Ivy. 2004. A Linguistic Commentary on Livius Andronicus. New York: Routledge.
- Meiser, Gerhard. 1998. Historische Laus- und Formenlehre der lateinischen Sprache. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Mignot, Xavier. 1969. Les verbes dénominatifs latins. Paris: Klincksieck.
- Nussbaum, Alan J. 1999. "Flocidus: An account of the Latin adjectives in -idus." In Compositiones Indogermanicae in Memoriam Joebem Schindler, ed. Heiner Eichner and Hans Christian Luschutzky, 377–419. Prague: Enigma.
- . 2004. "A -f- party." Paper presented at the 16th Annual UCLA Indo-European Conference, UCLA.
- Risch, Ernst. 1974. Wortbildung der homerischen Sprache, Berlin: de Gruyter.
- Scarlata, Salvatore. 1999. Die Wurzelkomposita im Rg-Veda. Wiesbaden: Reichert.
- Schaffner, Stefan. 2001. Das Vernersche Gesetz und der innerparadigmatische grammatische Wechtel des urgermanischen im Nominalbereich. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Schindler, Jochem. 1976. "On the Greek type imme's." In Studies in Greek, Italie, and Indo-European Linguistics Offered to Leonard R. Palmer, ed. Anna Morpurgo Davies and Wolfgang Meid, 349–32. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Schwyzer, Eduard. 1929. "Prognatus: Ein Beitrag zur lateinischen Verbalbildung." Zeitschrift für vergleichende Sprachforschung 56:10–22.

- 1939. Griechsche Grammatik. Vol. 1, Allgemeiner Teil, Lautlehre, Wortbildung, Flexion. Munich: Beck.
- Strunk, Klaus. 1994. "Lateinisch sacerdos und damit verglichene Komposita." Glotta 72:222 34.
- Szemerényi, Oswald. 1954. "The Latin adjectives in -ulentus" Glotta 33:266-82.
- Wackernagel, Jakob. 1905. Altindische Grammatik. Vol. 2, part 1, Komposita. Göttingen: Vandenhoeck & Ruprecht.
- Weiss, Michael. 2011. Outline of the Historical and Comparative Grammar of Latin. 2nd corrected reprint. Ann Arbor: Beech Stave.

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"Und von ferne sah ich den Rauch des Pferdedungs": Zum "Rätsellied" RV 1.164*

THOMAS OBERLIES

Viele auf dem Gebiet des Veda Arbeitende haben sich an der Hymne 1.164, versucht. Die meisten von ihnen gingen davon aus, daß dieses (sog.) "Ratsellied" eine Samulaup versübietdner Rätsel ist." Und so war man immer und immer wieder bemüht, seine Strophen inhaltlich so zu gruppieren, daß sie einzelne Rätsel ergaben, für die man dann—überzeugende und weniger überzeugende—Lösungen in Vorschlag brachte. Das Lied als solches spilet dabei, wenn überhaupt, nur eine gazn enbensächliche Rolle. So stellt Thieme, seinen —im übrigen überzeugenden—Lösungsvorschlag von RV 1.164-15-6 einleitend, fest: "Wie wohl auch vielen anderen Vedologen schien euns richtig, von der Voraussetzung auszugehen, daß es sich um eine Sammlung von Rätseln ... handelt, die inhaltlich nur locker miteinander verknüpft sind, die sich thematisch aber doch berühren, insofern nämlich, als sie befaßt sind einerseits mit Dineigen der kosmischen Ordnung ..., und andererseits mit Gegenständen und Abläufen des Rituals" (1987;329). Und er betrachtet seinen Artikel als "durchaus ernsten Protest gegen Sichtweisen,... die. ... in dem Gedicht ein einheitliches Ganzes besonderer Art...-erkennen zu sollen glauben" (1987;330).

Meinem verchtren Lehrer darf man—neben anderem—entgegenhalten, daß, auch wenn man das Lied nicht als ein einheitliches betrachtet, sich noch immer die Aufgabe stellt zu erklären, warum denn in verschiedenen seiner Strophen nun ausgerechnet vom Prawargya-Ristaul die Rede ist, und dies, wie Oldenberg vor langer Zeit sehr zu recht bemerkte, ganz "ohne alle Rätselhaftigkent" (1896-188 Alm. 1), so etwa in Strophe 31, wo mit einer bis dato m.W. noch nicht verzeichneten "Kenning" vom Gharma-Kessel gesagt wird." "Ich erschaute den Hüter der Kuhlmilch], sich nicht niederlegend, hin und her auf den Präden seine Bahn ziehend. Die nach derselben und die nach verschiedenen Richtungen gehonden [Strahlen] als jesien Elkieldung tragend

*Dieser Aufsätz fußt auf einem Vortrag, den ich auf dem 31. Deutschen Orientalistentag in Münster und anläßlich eines Lehraufenhalts am Institut für Sudasen, Tiber- und Buddhismuskunde der Universität Wein gehalten habe. Werner Knobl hatte die große Freundluchken, das dafür ausgeurbeitete Skript sorgsam durchzugehen und mir werwolk. Hinweise zu geben

'Zuletzt Witzel und Goto 2007'734 (im Anschluß an Geldner 1951:1 227)

Ahnlich heißt von ihm in Strophe 29. "Dieser hier summt, von dem die Kuh[mikh] umschlossen ist" (hierzu s. Oldenberg 1896 182-1). dreht er sich hin [und her] unter den Wesen". Der Hinweis Thiemes, daß Teile des Liedes mit "Gegenständen und Abläufen des Rituals" (1987:339) befaßt sind, geht doch deutlich hinter den bereits von Oldenberg erreichten Wissensstand zurück.

Heute bestehen nur wenige Zweifel, und dies vor allem dank einer eingehenden Untersuchung von Houben (2000), daß die Strophen 20-2, 26-31, 38, 40, 43 und 49, vielleicht auch 1 und 4-5, vom Pravargya3 sprechen Damit aber stellen sich für diejenigen, die RV 1.164 als eine Sammlung von Rätseln betrachten, ja auch gewisse textgeschichtliche Fragen, die zu beantworten sind. Auf dieses Problem gehen ihre Arbeiten indes, soweit zu schen, gar nicht ein. Leider haben auch "Unitarier" wie etwa Kunhan Raja (1956) und Walter Norman Brown (1968) dem Pravargya-Ritual so gut wie keine Aufmerksamkeit geschenkt, obwohl, dem Omphalos-Prinzip zufolge,* dessen sich die Dichter des Rgveda so gerne bedient haben, gerade die Strophen 26 und 27, das eigentliche Zentrum der Hymne also (25 Strophen - 26 + 27 - 25 Strophen), besonders "unrätselhaft" von diesem Ritual sprechen. Ihm möchte ich ım folgenden meine Aufmerksamkeit widmen, wobei ich mich, wie dies Oldenberg in seinen Noten so schon gesagt hat, "von dem Versuch, die Ratsel des großen Rätselliedes zu raten, im Ganzen zurückgehalten habe" (1909:157). Wohl auch deshalb werden hier keine spektakulären Ergebnisse prasentiert werden. Ich meine aber doch wahrscheinlich machen zu können, inwiefern die-zunächst-widerstreitenden Teile dieser (angeblichen) Sammlung zusammengehören könnten.

Ausgangspunkt ist die — nun nicht eben außehenerregende — Beobachtung, daß viederholt von einem Sachvechalt die Rede ist, dieser auch dessen Hauptgegenstand bildet. Dies gilt auch, wenn es sich bei diesem Sachverhalt um einen Ritus oder ein Ritual handelt, wie erwa beim Aponapptr\u00fca. RV to 30 also.\u00e3 Gehen wir somit zun\u00e4chen, wenn es sich bei diesem Sachverhalt um einen Ritus oder ein Ritual handelt, wie erwa beim Aponapptr\u00fca. RV to 30 also.\u00e3 Gehen wir somit zun\u00e4chen ist. Dann finder der Umstand, daß in ihm auch immer wieder von der Sonne gesprochen wird, umgehend seine Erklarung. Denn der Pravargya ist ein Ritual, das der St\u00e4rkung der Sonne dient und in dem zu dessem Zweck Hitze und Glut im Überm\u00e4ß erzeuge werden: In einem metallenen Kessel\u00e4 wird Ghee so sehr erhitzt, d\u00e4ß es sich enzundet, wenn Milch einzegeossen wird, und d\u00e4ß beide dann in heller Flamme

³Das rgvedische Pravargya-Ritual war mit großer Sicherheit die Vorform des Upanayana (s. Oberlies 2012/283-9).

⁴Ba zählt zu den velen Verdiensten, die asch die Jubilann, der diese Festschrift gewidmet ist, um die Vedistik erworben hat, daß sie dieses Prinzip, dessen sich die Dichter haufig bedient haben, aus den Liedern des Raveda mit der für sie volsichen Klahreh heraussearbeiter hat (s. Jamison 2004 und 2007 80–90)

^{**}Dises setzt naturich voraus, daß das Lied von Anfang an aus 52 Strophen bestanden hat, daß also die Strophen 48 bis 32 nicht spatere Zutat sind, wie dies Oldenberg in den Nøtøn (1909 157)—tallerdings sehr vorsiching—vermiurer hat

^aHierzu siehe Oldenberg 1912.234; vgl. auch Oberlies 2012:126 und 453-4 Anm. 186.

⁷Ausführlich hierzu Oldenberg 1917:446-9

^BWährend im (klassischen) Śrautra-Ritual ein Kessel aus Ton verwendet wird, war dieser im gyedischen aus Metall gefertigt (s. Luders 1959 360-1 und Oberlies 2012:283).

aus dem Kessel geschleudert werden. Nicht nur aus dem "Froschlied" (RV 7.103.9)," sondern auch aus RV 1.164-43 geht mit Deutlichkeit hervor, daß der Pravargya in grevdischer Zeit zur großen Sommerhitze begangen wurde, nämlich am Visüvant-Tag," dem Tag des Sommeroslistz:

"Ich erschaute von ferne den aus Pferdedung hervorgehenden Rauch im Laufe der Sommersonnenwende jenseits dieses unteren [Raumes]. Den gesprenkelten Stier kochten sich die Helden. Das waren die ersten Ordnungen".

Da mag es überraschen, daß die Sonne der Stärkung bedarf. Doch gestärkt werden muß sie-das gilt es über bisherige Erklärungen hinausgehend festzustellen"-für den unmittelbar bevorstehenden Aufzug der Wolken des Monsuns, die sie nun für Wochen verhüllen werden. Und vom "Auge der Sonne, das in Dunst gehüllt, [am Himmel] dahinzieht", spricht unser Lied ja mit aller wünschenswerter Klarheit (Str. 14). Nun ist es das andere große Anliegen des Pravargya, den Regen des Monsuns herbeizustihren.12 Und eben der "Regen" ist ein weiteres im "Rätsellied' wiederholt berührtes Thema, das, da auch ganz am Ende des Liedes aufgegriffen, dessen eigentliche Nutzanwendung zu bilden scheint.13 Das Thema Regen knüpft unmittelbar an das der Sonne an, da nach der Vorstellung des Rgveda-einer unter mehrerendie Sonnenstrahlen Wasser von der Erde hinauf in den Himmel bringen, von wo dieses als Regen auf die Erde zuruckkehrt. Darauf spielt Strophe 7 unseres Liedes an, in der es heißt: "Hier soll nur sprechen, wer fürwahr die niedergesetzte Stätte dieses lieben Vogels kennt. Aus ihrem Kopf lassen seine Kühe Milch strömen. In das Wasser als Hülle sich kleidend, haben sie es mit dem Fuß getrunken".14 Den Monsunregen herbeizuführen leistet der Pravargya im Verbund mit einer ihm vorgeschalteten Observanz, der (sog.) Avantaradīkṣa, die im klassischen Rirual für den Veda-Schüler bestimmt ist (vgl. Āpastamba-Śrautasūtra XV 20.4-10). Daß diese "Weihe" bereits in rgvedischer Zeit mit dem Pravargya verbunden war, macht wiederum das "Froschlied" wahrscheinlich, wo es heißt-

"Als Dichter, die ein Jahr lang dagelegen haben, ihr Gelübde wahrend, haben die Frosche nun eben ihre Stimme erhoben, die angetrieben war von Parjanya... Die Dichter, die durch einen ihnen eigentumlichen Soma (nl. den Gharma) gekennzeichnet sind, gaben Laut von sich, ihr bei der Vollendung des Jahres zu rezirierendes Lied armkulterend. Die Adhvaryus, die durch eine ihnen eigentumliche Hitze (nl. die des Gharma) gekennzeichnet sind, sind, gekentwizt habend, [nun] sichtbar geworden. Kein einziger ist [mehr] verborgen... Wenn nach einem Jahr die Regenzeit gekommen ist, werden die crhitzten Gharma-Topfe entleert^a (RV 7.103.1, 7-9)¹.

Aus den nach-¡gwedischen Rıtualecxten erhellt, daß für die Aväntaradikiş das zime Jahr eine entscheidend wichtige Rolle spielt. So fand erwa nach diesem einen Jahr ein Schneiden des Haares und des Bartes der Veda-Schuler start, die während der Dīkṣā, die sie in 'Seklusion' zugebracht hatten, üppug gewachsen waren." Davon nun konnte Strophe 44 des "Rätselliedes" sprechen: "Drei Langmähnige erscheinen in rechter Abfolge. Nach einem Jahr schert sich der eine von ihnen. Der eine blickt hin auf alles mit seinen Kräften. Das Dahinziehen des einen ist sichtbar, nicht [aber] seine Gestale". Wenn wir uns vergegenwärtigen, daß diese Haarschur um das Sommersolstiz und damit um den Beginn des Monsuns statfand, macht die Zusammenordnung von Veda-Schuler, Sonne und Wind, die "in rechter Abfolge erscheinen", sehr viel Sinn. Doch nicht uur hier, sondern auch sonst ist im "Rätsellbei" immer wieder von dem einen Jahr die Rede. Und das eine Jahr "ist" ja—so Sarapatha-Brähmaŋa XIV 1.1.37—"der, der da [oben] glüht. Und der Pravargya ist auch der[, der da oben slühr!"

"Scheidet" man nun die Strophen, in denen—und dies ganz der opinio zommunist zufolge—vom Pravargya, von der Sonne, vom Regen und vom Jahr die Rede ist, (gewissermaßen) aus, bleibt ein Rest von erwa 30 Strophen. Mindestens sieben davon werden durch die Themen bzw. Stichwörter "unkundig", "wissend" und "fragen" zusammengehalten. Zwei Beispiele mögen genügen, dies zu veranschaulichen. So heißt es in Strophe 3: "Als Unkundiger, der mit seinem Denken nicht versteht, frage ich nach diesen niedergesetzen Fußspuren der Götter..." Und hierher gehört auch die von Karl Hoffmann so treffend erklärte Strophe 16:1" "Sie, die [in Wirklichkeit] weiblich sind, nennt man mit trotzdem männlich. —Es sieht, wer Augen hat, nicht erkennt der Blinde. —Als Dichter, der [noch ein fummunderer] Sohn ist, als solcher

[°]Hierzu siehe Jacobi 1893

[&]quot;Zu der einst dem Vf. von Thieme mundlich unterbreiteten Erklärung des Wortes siehe EWAia s.v.

⁻ Mitt der von Oldenberg (1917-447) vorgebrachten Erklärung der Stärkung der Sonne hat sich Luders (1939 464-8) kitsteh ausemandergesetzt. Seine Erklärung—die Starkung des himmlischen Milchstromes—ist allerdings berins wenig akzeptabl

[&]quot;Siehe etwa Śarapatha-Brāhmana XIV 2.1.21

¹¹Zur vorletzten Strophe des Liedes († 164-5) "Dasselbe Wasser geht hinauf und herab im Lauf der Tage die Erde schwellen die Regengusse, den Himmel schwellen die Flammen Agnis") siehe Oldenberg (1907-133-4) und Luders (1907-133)

^{*}Diese Strophe ist ausführlich von Luders (1951 311) behandelt worden.

[&]quot;Auch wenn es wohl keines "Beweise" mehr bedarf, daß mit dem Quaken der Frötehe, das sich so plotzlich erhebt, das während der Avintzeraditiga ein Jahr lang eingeubte Rezinteren der Institudien gemeint ist, sic doch –diesen Hinweis verdankt ich einem allem Artikel von Gienemo (1901 466) – auf Tulsifdis verwiesen, der in seinem Ramscommanns (IV 44-1) just diesen Vergleich anzieht", "Überall wird das Tönen der Frosche gehört wir elds von) entelf. (klasse von Brithamen Schüllern, des der Vede trezinere.)

[&]quot;Daß und wie das Frosch Lied vor dem Hintergrund des Pravargya zu verstehen ist, hat Jamison (1991/92) überzeugend herausgestellt

[&]quot;Siehe Apastamba-Śrautasūtra XV 21.3

[&]quot;Zur Erläuterung zog Hoffmann eine Erzählung des Pañcavinsia Brahmana (XIII 3 zu) heran, in der "der Sohn als bester Mautraverfässer seine im Vaterschaftsverhaltnus stehenden Verwandten (pitarub) mit patribibly anspricht" (Hoffmann 1967-144).

habe ich sie erkannt. Wer solche [Dinge] auseinander kennt, der wird Vater seines Vaters sein^{4,19}

An diese Gruppe von Versen und Strophen lassen sich, zunachst einmal tentativ, diejenigen anschließen—es sınd sieben—, die von der Sprache handeln, sowie diejenigen, die von den Metren sprechen, in die diese Sprache gegossen werden kann. Denn wessen die Unkundigen "unkundig" sind, was sie nicht "kennen" und "wonach sie fragen", ist die Sprache". "Wer diese [Silbe der Re] nicht kennt, was wird der mit der Re machen!" (RV 1.164-39). So gilt es, "Anteil an der Sprache zu erlangen", die Agni im Menschen entstehen laßt"—wie es in Strophe 37 heißt.

Zusammengenommen ergeben diese Beobachtungen folgendes Bild des Inhalts des Ratselliedes:



→ 25 Strophen



Im Hinblick auf die hier vorgetragene Losung ist auch bedeutsam, daß etliche Strophen von der *Mutter* (8, 9, 10, 32) und vor allem vom *Vater* (8, 10, 12, 16, 18, 22 33) sprechen.

Verschiedene der "weißen Flecken" finden—dies sei am Rande vermerkt—ihre Erklarung dadurch, daß eine in Rede stehende Vorstellung ein, zwei Strophen weit fortgeführt wird. Dazu werden zumeist geläufige Ausdeurungen verwendet, die das Opfre bereits im Rgweda gefunden hat. So wird etwa in Strophe 8 von der Befruchtung der Erde durch den Himmel mit dessen Samen, dem Regen, gesprochen, von dem die Verse zed handelten. Aus der Verentigung von Himmel und Erde geht—so der Text weiter—Ugas hervor, die, eine Kuh, als Mutter Agnis vor den Wagen der Daksing sepsant ist."

In diesem Lued mut seinen 52 Strophen ist also—und hierun ist sich die Vedistik eigentlich vollig einig—in insgesamt 34 vom Pravargya, von der Sonne, vom Regen, vom Jahr, vom Wissen und Unwissen, von Wissenden und Unwissenden, von der Sprache und den Metren und von Mutter und Vater die Rede. Passen diese auf den ersten Bliek so verschiedenen Themen nun irgendwie zusammen? Abschließend

sei-dem zur Verfügung stehenden Raum Rechnung tragend-kurz gezeigt,22 daß das Verbindungsglied die genannte Aväntaradīksā ist, also iene im klassischen Ritual dem Pravargya-Ritual vorgeschaltete "sich innerhalb befindliche Weihe". Sie, die teils Gegenstand des Śrauta-, teils aber auch des Grhyasūtra 1st,23 gilt dem Veda-Schuler, der erst nach ihrem Vollzug am Pravargya teilnehmen darf.24 Im klassischen Ritual dient sie dem Studium der Pravargya-Texte und wahrt ein ganzes Jahr lang: "Ein Iahr lang übe er diese Observanz. In diesem einen Iahr erleme er [die Pravargya-Abschnirte des Veda]" (Apastamba-Śrautasūtra XV 21.1). Während dieser Zeit wird der Brahmacārin in engste Beziehung zur Sonne gebracht. "Er hat folgendes zu beachten: Er darf sich im Sonnenschein nicht bedecken. . . . Er darf im Sonnenschein nicht ausspeien. ... Er darf nicht im Sonnenschein seinen Urin lassen, ... Nachts soll er bei Licht essen; damit macht er sich ein Abbild dessen, der da glüht" (Satapatha-Brähmana XIV 1.1.33). Auch soll er die Texte "nicht unter einer Wolke und nicht im Schatten" (Apastamba-Śrautasūtra XV 21.8) einüben. Da er entsprechend des generellen Charakters dieser "Weihe" Wasser zu meiden hat, kommt seine Verbindung zum Regen weniger deutlich zum Tragen. Doch daß er "einen mit Wasser gefüllten Krug anzublicken hat" (Åpastamba-Śrautasūtra XV 20.8-9), gehort sicherlich hierher.

Dieselben oder doch ganz ähnliche Verbindungen zur Sonne und zum Regen weisen die sichtbar mit der Aväntaradiksä verwandten Vedavratas auf, die "Gelubde" also, "die das Erlemen bestimmter Abschnitter des Veda begleiten". In Desonders augenfälliger Weise ist diese Verbindung beim Sakvari-Vrata der Fäll. Dem Vedasungen Stehler, der diesen Gestang erlemen möcher, sind für 12 oder 9 oder 9 oder 9 oder auch nur em Jahr Observanzen auferlegt, unter denen sich die folgenden finden: Dreumal am Tag hat er Wasser au berühren; er hat sehwarze Kleider zu tragen und sehwarze Nahrung zu sich zu nehmen; wenn es regnet, hat er sich zu setzen, aber nicht unter ein Dach; zum regnenden Himmel muß er sagen "Wasser ist das Sakvarī-Lied". Wenn "er diese Observanzen erfüllt, wird Parjanya nach seinem Willen regnen", denn "die Mahänämnis"—ein anderer Name für das Sakvarī-Lied—briegen Wasser zustande" (Gobbila-Grhyasütra III 2 ~ Khädrra-Grhyasütra II 5,23-31). Es ist überdeutlich, wie der Veda-Schüler durch dauermde Verbindung zum Wasser zum Regenbringer gemacht wird. Der Vergleche mit der Kärfelye, einem Ritual, das der, der "Regen

^{*}Siche Hoffmann 1967 144-5

¹⁰ Stehe Oberhes 2012 117.

²¹ Hierzu siche Oldenberg 1896 180-1

²⁰Eine umfassende Untersuchung zum (vedischen) Immationsntual ist seit langerem in Arbeit. In ihr wird das gesamte textliche Material für all die hier berührten Fragen zusammengestellt werden.

[&]quot;Ausführlich hierzu Kashkar 1970. Man beachte, daß der Pravargya eines von (nur) zwer Rituslein st, dei m den Äranyakas ausführlich behandelt werden (da andere ist das Mahiverta-Rrual, der Feterlich begangene Tag der Wintersonnenwende) und daß die Äranyakas Texte aund, die speziell für den Brahmackinn bestimmt

³⁴ Siehe Kashikar (1973:7)

³³Zu ihnen zahlt in einigen Grhyasütras denn auch eine (teils unter dem Namen Śukriya firmierende)
Pravangya-Observanz, so etwa Varaha-Grhyasutra VII 17–22 (siche Houben 1991-22–3)

Thomas Oberlies

Zum_Rătrollied* RV 1.164

wünscht" (Āpastamba-Śrautasūtra XIX 25,16), durchführen soll, zeigt, daß er durch das Tragen schwarzer Kleidung gleichsam zu einer dunklen Regenwolke wird.

Nicht weniger deutlich setzen die Vedavratas den Veda-Schiller auch in Beziehung zur Sonne: "Die, welche diese Sonnen-Observanz vollziehen, tragen nur ein Gewand. Sie lassen nichts zwischen sich und die Sonne kommen außer Bäumen und Hausern" (Gobhila-Grhyasütra III 1.31 ~ Khädura-Grhyasütra II.510-20).

Avantaradiksa und Vedavratas zeigen also eine enge Verbindung von Textstudium. Sonne und Regen, die der Erklärung bedarf. Erstaunlicherweise hat sich hierzusoweit zu sehen-lediglich Oldenberg geaußert: "So darf angenommen werden, daß sich hier, in die Vorstellungskreise und Ordnungen des vedischen Schulunterrichts eingefügt, alte Zaubergebräuche erhalten haben, die den Regenzauberer zu seiner Würde vorbereiteten und weihten" (1917:421). Warum dies aber hatte geschehen sein sollen, sagt uns Oldenberg indes nicht. Eine Erklärung aber liefern Aväntaradīksā und Pravargya. Denn während erstgenannte die Einweihung in das "Geheimnis" des Rituals bedeutet, bezweckt letzteres die Stärkung der Sonne und das Heraufführen der Regenwolken des Monsuns, und alles ist fokusiert auf den Veda-Schuler. Viele, viele Details ließen sich anführen, die das hier Vorgetragene zu stützen vermögen. Daß das jährliche Studium des Veda-Schülers nun ausgerechnet zur Regenzen beginnt, fügt sich ebenso in das hier gezeichnere Bild, wie der Umstand, daß die Observanzen, die Śatapatha-Brāhmaṇa XIV 1.1.28-33 für den "Pravargya-Schüler" lehrt, vom Pāraskara-Grhyasütra (II 8) - fast wörtlich - für den Snätaka gegeben werden, und auch daß der Brahmacarın der ihm geltenden Hymne des Atharvaveda zufolge ein Gharma-Opfer zu verrichten hat, mit anderen Worten: einen Pravargya. Und hier schließt sich der Kreis. Denn diese große Hymne, die die Sonne als Veda-Schüler verherrlicht, ziriert etliche Verse aus dem (sog.) "Rätsellied". Und einer dieser Verse, RV 1.164.42d, wird in der Atharvaveda-Hymne (AVŚ 11.5.12 = AVP 16.154.2) ergänzt durch drei weitere, die davon sprechen, daß es der Brahmacärin ist, der der Erde durch Regen Leben gibt. Dabei wird der Veda-Schuler in der Tat als "Regenmacher" verherrlicht:

abhikrándan standyann arunáh sitingó brhác chépð `nu bhúmau jabhára brahmacārí siñcati sánau rétah prthivyám [téna jivanti pradúsá cátasrah]]/

"Brüllend [und] donnemd hat der rötliche, weißfüßige [Veda-Schuler] seinen großen Penis in die Erde gebracht. Der Brahmacärin sprenkelt den Samen auf den Rücken, auf die Erde. [Dadurch leben die vier Himmelsrichtungen.]

Daß das "Ratsellied" doch weniger rätselhaft ist als dies immer behauptet wurde, sollte im Vorhergehenden deutlich gemacht werden. Trifft diese Deutung des Liedes zu, hatte sich Oldenbergs Divination vollauf bestätigt". "Die wahren Lösungen der Rätsel. .. müßten mehr sakrifikal aussehen [als dies geschehen ist]" (1896:180) und "das Ruckgrat einer Deutung muß durch rituelle ... Ellemente gebildet werden" (1896: 183). Daß Rätsel, und nicht wenige, geblieben sind, betrübt mich, gestehen zu müssen.

Vor allem die Reihenfolge der Strophen bleibe—zunächst zummdest—ein Geheimis. Alles, was diesbezüglich gesagt werden kann, ist, daß die Strophen, die von der
Aväntaradiksa handeln, denen, die vom Pravargya sprechen, vorangehen, so daß die
Reihenfolge des Rituals gegeben wäre. Klein sind nach wie vor die "Schritte", die wir
"niedersetzen" müssen—um Strophe 5 unseres Liedes zu zuteren—, um langsam all
die Rätsel zu lösen, die der Rgveda noch immer bereithalt. Einen glaube ich gemacht
zu haben. Doch wie sagte sehon ein Uchter des Rgveda: "Man weiß es oder vielleicht
weiß man es auch nich" (RV 10.129.7).

Abkürzungen

EWAia = Mayrhofer, Manfred. 1986–2001. Etymologisches Wörterbuch des Altindoarsschen. Heidelberg: Winter.

Literatur

- Brown, W. Norman. 1968. "Agni, Sun, Sacrifice, and Vac: A sacerdotal ode by Dirghatamas (Rig Veda 1.164)." JAOS 88:199–218. [= India and Indology. Selected Articles, hrsg. Rosane Rocher, 53–77. Delhi: Motilal Banarsidass.]
- Geldner, Karl Friedrich. 1951. Der Rig-Veda. 3 Bande. Cambridge, MA: Harvard University Press.
- Grierson, G. A. 1903. "Tulasī Dāsa, poet and religious reformer." The Journal of the Royal Asiatic Society of Great Britain and Ireland, Juli 1903:447–66.
- Hoffmann, Karl. 1967. Der Injunktiv im Veda. Heidelberg: Winter.
- Houben, Jan E. M. 1991. The Pravargya Brähmana of the Taistiriya Āranyaka: An Ancient Commentary on the Pravargya Ritual. Delhi: Motilal Banarsidass.
- ——. 2000. "The ritual pragmatics of a Vedic hymn: The ,Riddle Hymn' and the Pravargya ritual." JAOS 120:499–536.
- Jacobi, Hermann. 1893. "Über das Alter des Rig-Veda." In Festgruß an Rudolf von Robs zum doktor-jubilaum, 24. august 1893, von seinen freunden und schulern, 68–74. Stuttgart: Kohlhammer. [= Kleine Schriften, hrsg. Bernhard Kölver, 258–64. Wiesbaden: Steiner.]
- Jamison, Stephanie W. 1991/92. "Natural history notes on the Rigvedic ,Frogʻ Hymn." Annals of the Bhandarkar Oriental Research Institute 72/73:137-44.
- 2004. "Poetry and purpose in the Rgveda: Structuring enigmas." In The Velas: Texts, Language, and Rtual, hrsg. Arlo Griffiths und Jan E. M. Houben, 237–49. Groningen: Forsten.
- Jamison, Stephanie W. (Hrsg.). 2007. The Rig Veda between Two Worlds Le Rgveda entre deux mondes. Paris: Collège de France.
- Kashikar, C. G. 1973. "Apropos of the Pravargya." Centre of Advanced Study in Sanskrit Studies 1:1–10.

- ——. 1976. "The Avantaradīkşa of Pravargya." Bulletin of the Deccan College Research Institute 35:66—72.
- Kunhan Raja, C. 1956. Asya Vămasya Hymn (The Riddle of the Universe): Rg-veda 1 164. Madras. Ganesh.
- Luders, Heinrich. 1951. Varuna. Band I, Varuna und die Wasser. G\u00f6ttingen: Vandenhoeck & Ruprecht.
- ——. 1959. Varuna. Band 2, Varuna und das Rta. Gottingen: Vandenhoeck & Ruprecht.
- Oberlies, Thomas. 2012. Der Rigveda und seine Religion. Berlin: Verlag der Weltreligionen.
- Oldenberg, Hermann. 1896. Besprechung von V. Henry, Atharva-velda ... Les livres VIII et IX ... Indogermanische Forschungen Anzeiger 6:178–85. [* Kleine Schriften, Teil 3, hrsg. Hans-Peter Schmidt, 1937–44. Stuttgart: Steiner.]
- 1909. Rgveda: Textkritische und exegetische Noten. Erstes bis sechstes Buch. Berlin: Weidmann.
- 1912. Rgveda: Textkritische und exegetische Noten. Siehtes bis zehntes Buch. Berlin: Weidmann.
- . 1917. Die Religion des Veda. 2. Auflage. Stuttgart: Cotta.
- Thierne, Paul. 1987. "Das Rätsel RV 1.164.15-16." In Hinduismus und Buddhismus: Fessichrift für Ulrich Schneider, hrsg. Harry Falk, 329-38. Freiburg: Falk. [= Kleine Schriften II, hrsg. Renate Sohnen-Thierne, 956-66. Stuttgart: Steiner.]
- Witzel, Michael und Toshifumi Gotö. 2007. Rig-Veda Das heilige Wissen. Erster und zweiter Liederkreis. Frankfurt: Verlag der Weltreligionen.

Judges and Courts in Ancient India: On dharmastha and prādvivāka

PATRICK OLIVELLE

Stephanie Jamison has taught us many things during her illustrious career, but one thing stands out in my mind. Do not simply read the lines of a text, she tells us, lines that the author wanted us to read. But read between the lines, read those absent and implied lines that the author did not want us to read. In them may lie the most interesting things that a text has to tell us, and also the most important. So here is my "reading between the lines" with respect to the issue of judges in the ancient legal literature of India.

It is probable that at least by the middle of the first millennum BCB there existed in ancent India a court system where disputes between individuals and between groups such as guilds and villages resulting in lawauits were resolved. Early literature also points to the development of sophisticated rules of legal procedure both with regard to the constitution of the courts and court personnel and with regard to rules of evidence and adjudication. It is, therefore, likely that some sort of judiciary must have existed from this time. There is, however, a lack of clarity with regard to how this judiciary was constituted and who presided over court proceedings.

The clearest statements in this regard come from Book 3 of Kaujilya's Arthaldistra, a book that is entitled "dharmasthiyam "Pertauning to Dharmasthas." The discussion in this book clearly identifies the judges as dharmastha in the context of private litigation. In the parallel tradition of Dharmasästra, the picture is less clear. The king is said to be the prumary judge, and it is only in his absence that his judicial functions are delegated to another person, who then functions as judge. Scholars have assumed that the term for this judge is pradarwabla. The conventional wisdom, then, is that the terms for judge' in Kaujilya's Arthaldistra and the Dharmasästras are different, the former using the term dharmasaba and the latter pradarwake.

There is also a scholarly consensus that the sections on the judiciary and legal procedure (ywww.hofm) in the two testual traditions are interdependent; most scholars consider, correctly I think, that the section on legal procedure of Manu (and century CB), the carliest Dharmassistra to have an extended discussion of this topic, is dependant on Kaulily's exposition. This makes the divergence of terminology all the more

'Kausilya's work was written probably in the first century CE, even though his source material may predate him by a century or more. surprising and requiring an explanation, an explanation that has not simply eluded scholars but that previous scholarship has not even attempted. Most have accepted as fact that the two terms are simply synonyms. Kane in his monumental History of Dharmadiktru (1962–75, 3:271 5), for example, takes the two as equivalents and as referring to the chief judge. In this paper I will argue that not only are the two terms not synonyms, but that their semantic histories and usage within junsprudence throw considerable light on the early legal history of India.

A major reason for taking the two terms as essentially different is the fact that the two are almost never used interchangeably in the literature. The Arthodistrus uses exclusively dharmastin and never prādvināka. Within the Dharmaśśstra tradition the normal term is prādvināka, and dharmastha is used only twice in the entire history of Dharmaśśstra, once in Manu and once in Nafuada, usagest luid presently examine.

Before looking at their usage, I want to focus first on the two terms themselves. To begin with, both compounds appear somewhat unusual, and I want to briefly analyze their grammar. The first member of prādvivāka, according to both Wackernagel (1896:174, line 27) and Mayrhofer (1956-80:2.376), is probably the rare noun pras, with the palatal sibilant changing to the retroflex just as vid to vit. Debrunner (1957:93) further observes that the form prad is found only in epic-classical Sanskrit and only within this very compound. The only other place this ancient noun pray occurs is Atharva Veda (Śaunaka) 2.27, which opens with: nec chátruh prásam jayāti, "May [my] foe by no means win the dispute" (tr. Whitney), and where we have the refrain repeated six times: prásam prátipraso jahi, "Smite the dispute of my counter-disputant" (tr. Whitney). Here we have the term priss, as well as the compound pritiprits, used clearly within the context of the resolution of a dispute and placed within a rite to make the opponent lose his case. In a special way, given its derivation from the root √prach 'ask', this term must refer to the questions raised and answered during the course of resolving a dispute. The location of this dispute is probably a public arena, what would become in later times a court of law.

The second member of the compound, wrafan, derived from the compound verb vi Vuac, probably refers to a person, perhaps a public official, in charge of setting such disputes and interrogating the disputants. The term virulan, however, is absent in the Vedic literature outside of this compound. The closest is virulary in the Aitaroya Brahmana (3.35): adhiyann upahnayda anyanu vinulaturam icaba ("In rectining hear err; he should seek another corrector," tr. Keith, modified), and tasmad agminariute na yayayan sgrayo virulatu ("Therefore at the Agnimariute has should not himself correct, a corrector should be found," tr. Keith). If praket has a similar meaning, then it should have meant something like a person who puts right what has gone wrong, and in the case of a dispute, a person who resolves the dispute correctly. Medieval commentators support such an interpretation.

The term dharmastha, although seemingly clear, also poses problems. First, in the Arthaíastra compounds ending in -stha generally have as the first member a place or location. The compound, therefore, refers to a person standing or established in a particular place. The examples are dvahstha ('standing or appearing at the door', 1.12.13; or 'gate keeper', 2.36.32); anikasha ('standing in the army; a warrior or elephant trainer', 2.1.7; 2.2.12; 2.31.1; 2.32.16; 5.3.12); grhastha ('staying in a house, householder', 1.3.9); adhikaranastha ('staying in an office, an officer', 1.14.3); and tatrastha ('staying there, while remaining there', 1.18.7). So the compound dharmastha, where dharma is not a location, is anomalous. Outside the Arthaiastra, of course, there are Sanskrit compounds ending is -stha with a first member that is not a location, but in those cases the reference is to someone firmly committed to what is presented in the first member of the compound. So in the present case, the dharmastha would be someone who is dedicated to dharma rather than a minor government official. A clue is found in the other similar compound sasanastha (2.9.19), which refers to an official who is appointed to an office through a decree, or whose authority in a particular office is based on a decree. If we take dharmastha as a similar compound, then this official's authority is based on dharma, not, I think, in the generic sense of dharma, but in the context of the four legal provinces spelled out in 2.7.2: dharma, vyavahāra, caritra, and samsthāna.3 Here dharma stands as the broadest base of correct action within society.

I want to move on now to look at how these two terms are actually used in the early legal literature. We have much more information about dharmatha, mostly in Kausijya's Arthadatna, than we do with respect to pradvinaka. Therefore, I will take the former up for comment first.

As already noted, the clearest statements in this regard come from Book 3 of Kauilya's Arthadástra, a book that is entitled dibarmasthiyam "Pertaining to Dharmasthas." At first sight it appears clear that the dibarmasthiya is a judge who adjudicates lawauits. The very first sentence of this books states: dibarmasthis trayas trayo 'matya' yawahdrikha arthah arwyah "Dharmasthas of ministerial rank ing roups of three should conduct trials... of lawauits arising out of transactions." Nothing is said with regard to the role, if any, of the king. However, if we look carefully at this book, the discussion is more about legal transactions (yawahdaru) han about lawauits, often referred to also

¹Vijňáncsvara (Mstaksará on Tájňavalkya Smrti 2.3) offers the following definition of the compound průdniváka tasya ceyam yauguki samjná | artínprathyarthinau prechatiti průt tayor vacanam virudáham

arrundibates or antisynath satus revenables researched by first catus workside an principatable it. "This, moreore, is an enymological designation on this (i.e., the pulge), part as decreved from the fact that he guestions the pluntiff and the defendant, models in derived from the fact that, along with the assession, he examined—or offferentiates—their retainments according to what it consistent and what is not. He is both a print and a windles, so he is printipated." Thus Viginateviare takes the compound as a denable with a tricily exprintegical meaning, where both nerms describe two aspects of the official Viginate-viare appears to be following Bhitrox (on Manna 8.79), who provides a similar explanation probability part just print without address artifacture without no subgiant workship light attacks without the compoundable it "pair is derived from the fact that the questions revolutes decreded from the fact that, affect questioning, he will, with respect to difficulty points of distance, explain with specificity or in an exceptional manner. He is both a prit and a windle, so he is print/wistle." Commenting on the same evera, Medibility offers the same explanation.

³For a detailed study of these four areas of law, see Olivelle and McClish 2015

as ryavahāra. Indeed, the very identity of the Sanskrit term may have contributed to

The content of Book 3 deals with transactions (vyavahāra) that have legal ramifications; but the book itself is not simply about the judiciary, court procedures, or the conduct of lawsuits. This subject comes up in Topic 58 about writing down the plaint, at the end of Chapter 1, and in Topic 63 (3.11.28-50) that deals with witnesses in a lawsuit. It is clear that the Dharmastha was not simply a judge but a government official with wide-ranging responsibilities. So, for example, at 3.4.35 his permission is required for a woman to remarry; at 3.12.14 his permission is needed to sell a pledge when the man who made the pledge is missing; and at 3.12.10, 12, when a stolen article is discovered, the owner gets the Dharmastha to confiscate it. He appears at the very end of the third book in a section called "miscellaneous" (3.20.22), where he is asked to personally look into the affairs of gods, ascetics, and the like. His final appearance, this time in a judicial capacity, is in the concluding verse (3.20,24), which ties the verse to the opening sentence and provides a conclusion to the entire book. Looking at other sections of the Arthaiastra, we see at 2.1.30 that a person who wants to leave home for the ascetic life has to first get the permission of a dharmastha. There were also jails attached to the office of a dharmastha, which were called căraka (4.9.21).

So the dharmastha clearly had responsibility for resolving disputes and adjudicating lawsuits, but his duties went far beyond that. I have called him a Justice (Ohvelle 2013), who was responsible for assuring the proper adherence to morals and laws on the part of ciritzens. This is the area of dharma that I mentioned earlier, the broadest basis for correct and lawful activity by individuals and groups.

There are only two places in all of the Dharmasiastras where dharmasha occurs.*

The first is at Manu 8,7 m a passage (8,3,2-7) that paraphrases and renders in verse an Arthasiasra passage (3,1,19). The second is in Nārnda Smṛti (Māṭṛkā 3,19), but this section of the text is in all likelihood spurious, found in only one of Lariviere's (1989) manuscripts.

Turning to the term pridpivida, in spite of Kane's (1962—75, 3:272) confident assertion that "A Judge was generally styled pridpivida," it is far from clear that originally this term referred to a judge, that is, the court official who presides over trials and is charged with rendering a verdict in a lawsuit. First, this term is quite rare in texts that predate the 5th century cs. It is found in only three: in one passage of Gautama, in three verses of Manu, and in three of Nārada. A close examination of these shows that the pridpivida was probably not the judge but a senior court official who interrogated witnesses and provided advice regarding their veracity and which of the litigants was telling the truth.

The earliest text of the Dharmassatric tradition, the grd-century-ace legal code of Apastamba, follows Kautilya in failing to mention the king in the context of court procedure. Gautama (and c. 8CE) is the first Dharmassatric writer who appears to indicate that the administration of justice is the duty of the king (11.19-20). From Manu (and c. CE) onward, however, the Dharmassatrias present the king unambiguously as the sole judge, and it is only when he is absent or cannot attend to court proceedings that another person is appointed to act in his place. Such judges derive their judicial authority from the king. But in none of the ancient texts is this substitute for the king called pradaystiss.

The earliest extant text to mention a judge or one who resolves a dispute is the Āpatamība Dharmasiāra (2.20,5), but it does not use the term prādvivāka: "Men who are learned, of good family, elderly, wise, and unwavering in their duties (are to oversee) disputes"—vivāde vidyābinjanasampannā vrīdāhā medhāvino dharmev avmipātunaļe. Vasighta (ist c. Beß) simply says: "The king or counselor should run the court proceedings"—rajā mantr vi sadahkāryāni kuryāt (16.1). The use of the term mantrin shows that Vasistha was unware of a special term for a judge.

The earliest use of the term prādvivāka is in the Gautama Dharmasūtra. Yet Gautama does not use the term when he discusses dispute resolutions. There he talks only about the king. When there is conflicting evidence the king is expected to consult with people learned in the triple Veda: "If there is conflicting evidence, he should consult those who are deeply learned in the triple Veda and reach a decision"-vipratipattau traividyavrddhebhyah pratyavahrtya nistham gamayet (11.25). The pradvivaka makes an appearance only in Gautama's discussion of witnesses, at the conclusion of which he gives this cryptic nominal sentence (13.26): rājā prādvīvāko brāhmano vā śāstravit. The obvious way to understand this statement is: "The king is the pradvivaka, or a Brāhmana who knows the sastra." If this interpretation is correct, as I think it is, then the king indeed can be a pradvivaka, which indicates that this is a descriptive term used for a person performing a particular function in the court. The very next sentence says (13.27); prādvivākam adtrābhavet, "He (the witness) should present himself to the prādvivāka." The connection between this office and court testimony is made clear also in the final statement (13.31): sarvadharmebhyo gariyah prādvivāke satyavacanam, "Of all Dharmas, the most important is to speak the truth before (or to) the prādvivāka." The evidence of Gautama, then, supports the view that the prādvivāka was not the nudge but the person who interrogated witnesses and rendered a judgment regarding their veracity. And that person can be the king himself. Revisiting our discussion of pras in the Atharva Veda and vivaktr in the Attareya Brahmana in the light of Gautama, we can see that prast pointed not simply to a dispute but to the testimony and interrogation taking place within a dispute. The hope expressed in the

⁴ The great Indian poet and playwinght Kalidisa in his Raghineania (17.30) uses the term diharmathin, showing his familiarity here as elsewhere with Kauthva's Arthinistim and its unique vocabulary. (Citations of Manu are from Ohvelle 2005, and citations of the Dharmasútras of Ápastamba, Gautama, and Vasişiha are from Ohvelle 2000.)

imprecation of the Atharva Veda is that the opponent will lose this battle of words, perhaps that he will be tongue-tied when the interrogation takes place.⁵

Manu (8.1-3) presents the clearest and most explicit statements with regard to the judicial authority of the king. It is the king who is normally expected to adjudicate lawsuits. Manu (8.9) goes on to speak of judges other than the king: "When the king does not try a case personally, however, he should appoint a learned Brahmana to do so" - yadā svayam na kuryāt tu nrpatih kāryadarsanam | tadā niyuñiyād vidvāmsam brāhmanam kāryadarsane. But here nothing is said about the prādvivāka; the person presiding over the court in the absence of the king is simply referred to as a "learned Brāhmana," Manu (8.79), just like Gautama, introduces the prādvipāka only within the context of the interrogation of witnesses, not while discussing the person substituting for the king: "When the witnesses have gathered in the court, the pradvivaka should examine them in the presence of the plaintiff and the defendant, exhorting the witnesses in the following manner"-sabhantah saksinah praptan arthipratyarthisamnidhau | prādvivāko 'nuyunjīta vidhinānena sāntvayan. The second occurrence of the term in Manu (8.181) is a bit more ambiguous, but I think it is also within the context of witnesses or more precisely the lack of them; in any case, his function is to ferret out the truth in a lawsuit. When a man refuses to return a deposit and no witnesses are available, Manu instructs the pradwraka to use spics to get at the truth. The third and final occurrence is at 9.234, and here Manu is dealing with malfeasance on the part of court officials: "If an amatya or a pradvivaka settles a case wrongly, the king himself should settle it and fine him"-amātyah prādvivāko vā yat kuryāt kāryam anyatha tat svayam nrpatih kuryat tam sahasram ca dandayet. The text clearly refers to the miscarriage of justice in the adjudication of a lawsuit. The king should then personally render the proper verdict and punish the court officials, who are identified as amātya and prādvivāka. In all likelihood, here the amātya is the judge substituting for the king and the pradvivaka is the official interrogating the witnesses and advising the judge. Remember that Vasistha calls the substitute mantrin, and Kautilva calls the dharmasthas adjudicating lawsuits amatyas.

The view that the pradivisadas in these early sources is not a judge but a court official is confirmed by its use in the Nārada Smrīi (sth-oth c. cs). In the Mārch acction dealing with legal procedure, Nārada advises the king about his judcial function
(Matrkā 1.29): "Placing the Dharmasāstra at the forefront and abiding by the opinion
of the pradivisada, he [the king] should adjudicate lawsuits in the proper order with a
composed mund"—dharmasāstram puruskryn pradviviakamate sthiah] ! samahītamatii,
padyad purushārān anukramāt. Here it is assumed that the king is the presiding judge in
a court case. And he is advised by the prādvirāka, who is, therefore, evidently not the
judge but a court official. Here the prādvirāka appears to parallel the dharmasprusakry
of Manu (8.20), who is also a person responsible for explaining and interpreting the

dharma within court proceedings. The second occurrence in Narnada Smrt1 (Mäfreka 3.15) is more ambiguous; it tells the prindrivisha to pull out a splinter from the court procedure just like a surgeon. In other words, he is in charge of making sure that no irregularity or malfeasance takes place in the court. The final occurrence (Nārnada Smrti 1.31) lists the king and the prindrivisha in a list of six individuals who should not be called as wiresses.

The odd man our in the early history of dharmansha and pridavisidus as Yājiñavalkya (4th-15th c. CE). He does not use either term. Yājñavalkya, however, subscribes to the view that normally it is the king who adjudcates lawsunts; judicial functions, just as executive power, rest with the king. But, much like Manu, he also says (Tājñavalkya Smrīt 2.3) that when the king is unable to do so, he should appoint, along with court officials (sabīya), a Brāhmaṇa who knows all dharmas (sarvadharmavit). No name or title is given to this Brāhmaṇa.

That the pridapisalian was an ancient institution, even though the term itself is absent in the Vedic corpus, is indicated by what appears to be a younger version of the term: praisasvisaliae, where prais is changed to the more common prassine (question). This term is used both in the Vājasaneyi Samhūtā (30.10) and in the Attarrya Brāhmaṇā (35.60) within the context of the Puruṣamedha or the sacrifice of a human being, where a prasinavivālae is offered maryadāyai, "for boundary," probably both legal and moral. And Mahidhara commenting on the Vājasaneyi passage explans: krāh prasinār yo virinakti brūtis sa prasinavivālah. "The prasinavivālae is the one who explicates, that is, states, the questions." This explanation supports my view that this court official was connected with interrogation and evaluation of evidence, especially witnesses.

By the second half of the first millennium cs, however, the term pradavisulus appears to have expanded its meaning to include the presiding judge of a court. The term is used with this meaning in the lexicon Amarakoia 2.8; a drastart inyawabatrinahin pradavisukakeadariakau. "with reference to the adjudicator (of lawsuits are used the terms) prädavisuka and akaadariaka." In Daqdin's Dadakumārucarita (Kale 1966:191) also the term is used to refer to a judge who decides the outcome of a lawsuit.

In medieval legal digests (nihanthha), the term is used regularly with reference to the presiding judge in a courtroom. Writing in the 14th century, the jurist Devannabhatpa, the author of Smrtnandrika, perhaps the best legal digest of the Middle Ages, discusses the prindvinkiak in the section devoted to the judge, that is, the person rendering the verdict in a lawsuit (nirnety). He cites a verse from Brhaspatu, which states that the person rendering the verdict (nirnayaker) is either the king or a learned Brähmana. Devannabhatpa identifies this Brähmana as the prindvinkia (brähmanah prindvinkikhiyah). He interprets the second part of the term, namely, punkia, as a refcence to the rendering of a verderin a lawsuit. Here is his interpretation of the term:

There is a parallel in the judicial curse tablets of Greece (and elsewhere), which are supposed to make the opponent unable to present his case eloquently in the court-see Gager 1992 (especially Ch. 3, 116–50).

^{*}Vyavaharakanda (Srinivasacharva 1914.29-42)

Accordingly, Brhaspati humself states: "He is the judge (prādpināka) hecause he asks questions and counter-questions, and because he speaks at the outset (prāk) and affectionately (prāya)." [Brhaspatai Sumri 1.1.69] The term prad comes from the fact that he questions the plaintiff and the defendant. The term pradka comes from the fact that he especially (pieśa) pronounces (yakit) the verdici.

A few conclusions flow from the above investigation. First, the terms dharmastha and prādpivāka, although they share some characteristics such as being involved in dispute resolutions and court procedures, refer to two very distinct institutions. The dharmastha is a government official, part of the Kauţilyan state bureaucracy, permanently located in villages and towns and responsible for a variety of functions relating to the maintenance of public order and morals and the resolution of disputes. The prādpivāka, on the other hand, functions solely within the confines of a court and is responsible for interrogating witnesses. Second, both terms become extended to include broader judicial functions. The later redactor (perhaps in the late 2nd c. cs) of Book 3 of the Arthadastra saw him as a presiding judge, but provides for a bench of three dharmasthar in adjudicating lawsuits? When the prādpivāka came to be considered a presiding judge is unclear, but it must have happened some time after Nărada, that is the middle of the first millennium cs.

References

- Debrunner, Albert. 1957. Altmdische Grammatik. Vol. 1, Part 2: Nachträge zu Band I. Göttingen: Vandenhoeck & Ruprecht.
- Gager, John G. 1992. Curse Tablets and Binding Spells from the Ancient World. New York: Oxford University Press.
- Kale, M. R. 1966. Daśakumāracarita of Dandin. 4th ed. Delhi: Motilal Banarsidass. Kane, P. V. 1962–75. History of Dharmaśāstra. 5 vols. Poona: Bhandarkar Oriental Re-
- search Institute.

 Lariviere, Richard. 1989. The Náradasmyti, 2 vols. Philadelphia: Department of South
- Asia Regional Studies, University of Pennsylvania.

 Mayrhofer, Manfred. 1956–80. Kurzgefißites erymologuches Wörterbuch des Altindüschen /
 A Contes Etymologucal Sanskrit Dictionary. 4 vols. Heidelberg: Winter.
- Olivelle, Patrick. 2000. Dharmasūtras: The Law Codes of Apastamba, Gautama, Bau-dhayana, and Vasistha. Delhi: Motilal Banarsidass.
- ——. 2005. Manu's Code of Law: A Critical Edition and Translation of the M\u00e4nava-Dharma\u00e4\u00e4stra. New York: Oxford University Press.
- ——. 2013. King, Governance, and Law in Ancient India: Kauṭilya's Arthaśastra. New York: Oxford University Press.
- Perhaps the requirement of three assessors called *sublays* in the Dharmasästric descriptions of court personnel is a reflection of the Kautilyan norm of three *dharmasibus* for adjudicating lawsiits.

- Olivelle, Patrick, and Mark McClish. 2015. "The four feet of legal procedure and the origins of jurisprudence in Ancient India." Journal of the American Oriental Society 18533-47.
- Srinivasacharya, L. 1914. Smrtichandrika by Devana-Bhatta. Vol. 3, part 1, Vyavahara Kanda. Mysore: Government Branch Press.
- Wackernagel, Jakob. 1896. Altindische Grammatik. Vol. 1, Lauslehre G\u00f6ttingen: Vandenhoeck & Ruprecht.

Old English Riddles, Comparative Poetics, and the Authorship of *Beowulf*

LIST OLIVER!

In the recent cleaning of the bowels of the BM, among artifacts in very poor repair was found a portable pipe organ whose documentation assigns it to the late sixteenth/early seventeenth century. During discussions (still ongoing) as to whether or not it warrants restoration, the pipes themselves were examined and found in some instances to contain wadded paper inserned to adjust the pitch to the proper tuning. Five such scraps were found, all of which appeared on first examination to be approximately of the same age as the organ itself. The papers have been assigned to the museum laboratory for further study and analysis; any discussions of these finds (including the following) must thus be seen as preliminary.

All fragments contain writing; four of these are in secretary hand. The last is of paricular interest to Anglo-Saxon studies. This scrap is approximately four inches by six unches, ragged on all sides. The curiosity of this artifact is that the script is in medieval insular minuscule, and the language is Old English. The ink was originally black, now faded inconsistently according to the exposure to air of the crumpled paper. Until preservation has been completed, no facsimile of any of these fragments will be available. However, the reproduction below represents a rough approximation of the text of the Old English document.

I The Old English text

eft onhpyrfed · ic bealcette min	i
beot bald ymb beorsele ðonne min codd apeceþ	ii
ætpintres hinsið · æftemest healdende ic hoppe	iii
tte hoppette · stefnas þara gesplotted spiliaþ m	iv
idgrenum cuum gelic we bylgab buccum gelic	v
we blætab · aceled ingrundpong greotende we gr	vi
ædab spa agalab preostas ætgædrung bi blodore	vii

2 Edition and translation

The fact that there is no apparent structure in the format follows Old English convention, in which the scribal desire to make the most use of expensive parchment often results in words separated internally (and not necessarily along morpheme boundaries) by the end of a line. (See hoppe-tie II. 3-4, m-td 4-5, and gr-adalp 6-7). Alliterative patterns indicate that the text is poetic in structure. I have thus rendered it below in the standard editorial form for Germanic poetry, with the four-testess alliterative patterns broken by a medial caesura. I have also inserted spaces between prepositions and the nouns they govern where the scribe has written these together (a common, although not consistent, feature of manuscript practice across medived languages). I have left the pointing as in the manuscript but provided standard English punctuation in the translation. Judging by both the gap at the beginning of the exemplar and the pattern of alliteration, the first half-line of the poem is missing.

eft onhwyrfed ·	- 1
ic bealcette min beot bald ymb beorsele	2
donne min codd awecch at wintres hinsid	3
estemest healdende ic hoppette hoppette	4
stefnas þara gesplotted spiliaþ mid grenum	5
cuum gelic we bylgap · buccum gelic we bletap ·	6
aceled in grundwong greotende we gradab	7
swa agalah preostas at gadrung bi blodore	8

A rough translation reads:

turned backwards.	1
I beich my boast bold around the beer-hall	2
when my cod awakens at winter's departure.	3
Holding behindmost, I hop, hop.	4
The voices of the speckled play with (those of the) green.	5
Lake cows we bellow, like goats we bleat,	6
chilled in the bottom of the pond, complaining we croak,	7
like priests chant at the marriage-gathering around the blood-	goblet. 8

3 Literary analysis

The genre of this poem is clearly allied with the Exeter Book riddles. It appears to be a fertility poem spoken by an amphibian aroused by the coming of spring.\(^1\) Although

We might be tempted to associate this amphibian with the horny toad, but it is not native to England, see "Homed toad (Short-homed lizard)."

the conundrum as it stands does not give a definitive solution, I tentatively reconstruct the first, mussing half-line as eggeri's min nome; the space left blank would borh allow and be filled by this phrase. The opening then would be parallel to Exerce Book ridde no. 23, which opens, gaph is min nome. The identical second half-line in both poems gives the answer to the riddle: he name is spelled backward in the first half-line. While the familiar riddle thus supplies baga 'bow', this new find presents fragge 'frog'. As in the agad poem, the reversal of the word allows the alliteration of the initial vowel with eff in the second half-line.

The frog awakes with the rains of spring, and his andd ('bag' scrotum'')—precursor of Early Modern Eng. and picce) is aroused. He holds (a female frog) from behind and hops repeatedly, presumably in sexual excitement. The repetition of hoppets in this line is—to the extent of my knowledge—unique in Old English poetry. The poet seems to be experimenting with a new technique; if the poem can be dated to the Anglo-Saxon period (on which, see below), this device never achieved popularity. Speckled and green frogs allow their voices to mix together in playful song. This vocal union metaphorically reproduces the physical conjunction of "our" frog and the object of his lust. The next line (swam galie we bylgap' bucann galie we blaap) is poetically hypermetric, demonstrating the cruberance of the sexual connection. The croaking of the frogs is rendered by the (at least semi-)onomatopocic growtende. The final line is clearly ironically intended: the frogs' croaking during their mating echoes the chant of prests around the sacrificial up (blood-goblet) at a marriage ceremony. This crass comparison of mating frogs to human marriage parallels many of the cruder sexual references in other Exeter Book ruddles.

4 Posing the questions of dating

The fact that the poem is written on paper rather than parchment precludes the possibility that it could predate by much the pipe in which it was found. Analysis currently in progress will determine the age of the paper upon which this poem is written and the ink used. Assuming that results will match those of the preliminary examination, what we have here is an Old English composition written on paper during the Early Modern English period. The question to be posed then is whether the text itself can be dated earlier—perhaps even back to the Anglo-Saxon period—or whether it is an original work by an Elizabethan scholar of Old English.

The latter option is hardly to be ruled out. Laurence Nowell and his student William Lambarde were extremely active in Angleo-Saxon studies in the second half of the sixteenth century. Nowell compiled his (unpublished) Vocabularium Saxon-suum ca. 1965; he was not above including here entries that occurred only in his own back-formations. Lambarde's translations into Old English of selections from the Latin Quadriparities (a twelfth-century collection of Angleo-Saxon laws) were skillful

enough to convince legal historians William Thorpe, Reinhold Schmid, and even the great Felix Liebermann that Lambarde's renditions were original vernacular compositions (Wormald 1907). These two scholars are generally credited with the rediscovery or, in Rebecca Brackmann's words, "the invention" of Anglo-Saxon (Brackmann 2012). Either of them could easily have tried his hand at Old English composition outside the genre of laws.

Textual analysis, however, provides two reasons to favor the theory that the text was copied from a much-carlier original. The first is the half-line missing at the beginning of the poem. I cannot conceive of an explanation for why a putative Barly Modern author would omit the beginning to his riddle, particularly since it provides the solution. Far more likely, in my opinion, is that the exemplar—for reasons lost in time—itself was missing this half-line, and the later scribe simply copied what he had.

The second reason is that strong similarities exist between this composition and a well-known, albeit far earlier and considerably distant, predecessor.

5 The Rgvedic parallel

The content of the Old English riddle matches to an extraordinary extent that of the well-known Rgwedic "Frog" hymn 7.103. The relevant portions are reproduced below, followed by Stephanie Jamison and Joel Brereton's translation:

- 1. ... vácam parjányajinvitám prá mandúkā avādisuh
- 2. divyá ápo abhí yád enam áyan dýtim ná súskam sarasť sáyānam
- 3. ... akhkhalikitya ...
- 4. anyó anyám ánu grbhnáti enor...
 - ... mandůko yád abhívystah kániskan pýšnih sampynkté háritena vácam
- gómáyur éko ajámáyur ékah pýsnir éko hárita éka esäm
- brāhmanāso atirātrē ná sóme sáro ná pūrnám abhíto vádantah (van Nooten and Holland 1994)
- 1. ...[T]he frogs have spoken forth a speech quickened by Parjanya.
- ... When the heavenly waters have come to him, lying like a dried leather hag in the pond, ...
- saying "akhkhala"...
- 4. One of the two grasps the other from behind, ...
- ... when the frog, rained upon, has hopped and hopped, and the speckled one mixes his speech with the green one.
- One of them has a cow's bellow, one a goat's bleat; one is speckled, one green....
- Like brahmins at an "Overnight" soma ritual, speaking around (a soma vessel) full like a pond, . . .

(Jamison and Brereton 2014:1013)

²The manuscript reads *agof*, a newer form of *agob* (See discussion of these forms in Krapp and Dobbie 1936.192 and 334.) I have reverted to the older form solely for the sake of transparency.

Three hypotheses can be postulated for the similanties in these texts. The first is that both were created independently. I reject this possibility due to the parallel statements that the speckled and green frogs mix their voices (although this description is not necessarily exclusive to these two territories), and more particularly the non-trivial comparison that some frogs bellow like cows and others bleat like goats. Furthermore, both poems strikingly compare to the croaking of the frogs the chanting of religious figures around a bowl (in the Rgwedic text, the some westel and in the Old English text, the blodmy 'blood-goblet'—that is, the communion cup). The second possibility is that the Rgwedic hymn was known in Anglo-Saxon England and adapted to contemporary mores. Neither historical nor archaeological evidence indicates any connection between the Indian subcontinent and the British Isles at this early date, and thus this option must also be ruled out.

The only remaining possibility I can see, unlikely as it may seem, is that these two poems are reflexes of an earlier, Indo-European original, albeit adapted by time and custom. Common remaining themes abound: the sexual arousal of frogs when spring rains awaken them, the variegated colors of the frogs (typical of both India and England), their manting labrist (copulating from behind), and—most important in terms of non-trivial similarities—the comparison to the chanting of religious officials at fertility rices. These textual similarities are supported by both zoological and linguistic parallels.

6 Comparative zoological analysis

Stephanie Jamison has provided a convincing examination of the biological underpinnings to RV 7:105 (Jamison 1991–3). Her arguments are summarized in the introduction to the hymn in the new translation (Jamison and Breteron 2014;1012–3), from which the following citations are taken. (I thus mark the latter citations [R] to avoid confusion between sources.) Jamison points out that, typically, "the different cries serve to attract conspecific females to the appropriate male." (IR]) Thus some frogs bellow like cows while others bleat like goats. Further, "[t] he actual mating posture of frogs is described in verse 4 [in both the Rgycedic and Old English verse]: it involves the male approaching the female from behind and grasping her firmly for a slong as it takes—which for some species can be quite awhile (days or weeks)." ([R]ibid.) Finally, in sections of the Rgycedic hymn involving a resemblance of the frothing of boiling milk involved in the ritual to discharge of eggs after mating, "the frogs are seen as assuring increase for us as well." ([R]ibid.) Although the Old English poem does not include such a graphic comparison, the facts that priests are chanting at a marrange externony similarly test he mage of human fertility to that of frogs.

7 Comparative linguistic analysis

The lack of obvious matching vocabulary between these two poems should not necessarily argue against their connection, as over time many words could have been replaced by both changing tastes and concomitant emerging poetic styles The single shared reflex—of PIE "yfeu- (RV yfmfyur, OE suums, each in 1. 6)—should not be seen as more than continued use of common terminology.

However, two peculiartics exist in the Old English version that can be explained with reference to the Rgyedic hymn. First is the otherwise unknown repetition of the verb hoppeter 1 hop in 1.4. In the same context, the Rgyedia uses kinitikan. This is an intensive reduplicated form of the root skand-"leap" (Whitney 188;150-1 and 1889; 870-028, b): the Indie five greepeatedly leaps in occassy.\(^1\) Inherited PIE reduplication often disappears in Germanic: for example, pretente forms have lost their reduplicators. My hypothesis here is that the Old English poet has substituted repetition of the verb for a reduplicated form in the original source.

The second oddiry in the Old English text is striking more for its divergence from natural science than for any linguistic anomaly. In 1. 3, the poet states that the frogs are acted 'chilled' in the grundwayg' bottom of the pond'. One technique for modern geothermal heating is to create a loop that circulates air warmed at the bottom of a pond, as the temperature there remains relatively constant throughout the year ("Geothermal: How it works"). Even in England, even in an English spring (if the phrase is not oxymoronic), a frog is unlikely to be chilled at the bottom of a pond. Tellingly, the Regwelic hymn uses in the same line the call of the Indian frog: abhbala. This may have been onomatopoeic to the Sanskrit ear, but not to the West Germanic, whose frogs croak ribid in English or Iwasak in Dutch. The Sanskrit frog may, however, have diverged less from the IPE ancestor than the Anglo-Saoro. My hypothesis here is that the poet replaced an instance of onomatopoeia like abhbala with the similar-sounding OE acted, fitting it to the syntax. What he crucially overlooked was the clash with physiological veriry.

8 To conclusion and beyond

If we accept the hypothesis that this find represents an Early Modern English copy of a much earlier Old English poem, the text itself is far more precious than the artifact. The verse, as discussed above, seems to represent the reflex of an ancient tradition, dating back to a time when Germanic and Indo-Iranian had not yet separated linguistically, or at least when they were still in close areal contact. This find presents an important addition to our knowledge of the transmission of Indo-European poetic tradition.

¹The Rgwedic intensive often, but not always, has an iterative or repetitive value, see discussion in Jamison 1997 51-2.

This nddle also, however, presents some interesting lexical comparisons for Bamulf scholars. A well-recognized fact about our only complete Old English epic is
that the vocabulary is both unusual and often difficult. Norable in this respect is that
two of the twenty-nine non-grammatical lexemes used in this new find appear elsewhere almost exclusively in Boewulf: the epic includes the only other artestations of
grundwong (ll. 1496, 2388, 2770) and four of the seven occurrences of borsele (ll. 482,
492, 1094, 2633) (Flealey n.d.;3.vv. and Fulk, Bjork, and Niles 2008: Glossary s.vv.).
I thus present the extremely tentative suggestion that perhaps this verse was composed
in its present form by one of the last redactors of Bowoulf; even more tentatively we
might augment the list of his output to include—on the basis of stylistic comparsion
to the gtopol opening if my reconstruction is correct—the agob riddle. However, it is
best to let conjecture rest until it has been unequivocably demonstrated that this new
find is not a weig—or, in the form it would take post-Grimm's Law and after accent
retraction, a blass.

homo loquens is the original homo ludens (Watkins 1973:107)

References

- Brackmann, Rebecca. 2012. The Elizabethan Invention of Anglo-Saxon England: Laurence Nowell, William Lambarde, and the Study of Old English. Suffolk: Boydell and Brewer.
- Fulk, R. D., Robert E. Bjork, and John D. Niles (eds.). 2008. Klaeber's Beowulf. 4th ed. Toronto: University of Toronto Press.
- "Geothermal: How it works." Accessed May 25, 2013. http://www.wpghci.com/faqhow-it-works.html
- Healey, Antonette di Paolo (ed.). N.d. Diatonary of Old English Online. Accessed May 25, 2013. http://tapor.library.utoronto.ca/doe/
- "Horned toad (Short-horned lizard)." Accessed May 23, 2013. http://animals.national geographic.com/animals/reptiles/horned-toad/
- geographic.com/animals/reptiles/horned-toad/
 Jamison, Stephanie W. 1991–2. "Natural history notes on the Rigvedic 'Frog' Hymn."

Annals of the Bhandarkar Oriental Research Institute 72-3:137-44.

- ----- 1997. Review of Christiane Schaefer, Das Intensivum im Vedischen (Göttingen 1994) Kratylos 42:50–5.
- Jamison, Stephanic W., and Joel P. Brereton. 2014. The Rigneda: The Earliest Religious Poetry of India. New York: Oxford University Press.
- Krapp, George Philip, and Elliot van Kirk Dobbie (cds.). 1936. The Exeter Book. New York: Columbia University Press.
- van Nooten, Barend A., and Gary B. Holland. 1994. Rsg Veda: A Metrically Restored Text. Cambridge: Harvard University Press. Accessed online May 23, 2013. Karen

- Thomson and Jonathan Slocum (eds.), http://www.utexas.edu/cola/centers/Irc/RV /RVo7.html
- Watkins, Calvert. 1973. "Language and its history." Daedalus 102,99-111.
- Whitney, William Dwight. 1885. The Roots, Verb-forms, and Primary Derivatives of the Sanskrit Language. Leipzig: Breitkopf & Hartel.
- —— 1889. A Sanderic Grammar. and ed. Cambridge, MA: Harvard University Press. Wormald, Patrick. 1997. "The Lambarde problem: Eighty years on." In Affret the Wite: Studies in Honour of Junes Bately on the Ocasion of Hrs Sexty-fifth Birthday, ed. Jane Roberts, Janet L. Nelson, and Malcolm Godden, 237—75. Cambridge: Brewer. [Reprinced in Lagal Culture in the Early Medieval West. Law as Text, Image and Experience, 139—78. London: Hambledon, 1990.]

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Rudra: 'Red' and 'Cry' in the Name of the Young God of Fire, Rising Sun, and War

ASKO PARPOLA

1 Introduction

Stephanie Jamison's gripping book, Saerifical Wife, Saerifier's Wife is an exemplary and penetrating study of Vedic religion. Focusing on the role of women in ancient Indian rituals, she has not shunned topics that others might have found uncomfortable. There is a thorough discussion of the textual descriptions of the enacted "sacred marriage" between the killed other victim and the sacrificing king's chief queen in the Vedic horse sacrifice. In associated dialogues the partners are mocked or scolded in obscene language (Jamison 1996:65-88). Jamison (1996:96-8) also analyzes in detail the parallel actions on the macharata day at the end of the year-long sacrificial session. On this occasion a bard (māgadīni-) or a celibate student (bruhmacārin-) and a prostitute (bumtali- or pumtali-) scold each other in crotic terms and perform sexual intercourse.

The magnaths' and pumicals' figure in restinations as well. Vrályas were bands of raiders worshipping the god Rudra (see Falk 1986). Their expeditions were introduced and concluded with wathyatoma rituals. While sexual intercourse and open bloodshed are avoided in most Vedic rituals, they characterize the assumedied, the mahiavariad, the vralpustoma and a few other Vedic rituals such as the building of the mahiavariad, the vralpustoma and a few other Vedic rituals such as the building of the realizer (agraticapusa) that culminates on the mahiavariad day, and the royal consecration (rajasilya). Jan Heesterman (1962, 1967) has convincingly shown that these "wrdpa rituals" actually represent an earlier, "pre-classical" phase of development in the history of Vedic ritual.

Combining the study of archaeology, historical Inigustics, and religion, I have long explained the "mdiya rituals" differently from the "unilinear" view of my coleagues (cf. Falk 1986:50). In my opinion, the "mdiya rituals" represent the "Atharvavedic" tradition that existed in the Indus Valley before the arrival of the Rigvedic tradition, and the "classical" Vedic ritual came into being when these two traditions fused together. The earlier Indo-Aryan speakers came to South Asia between 2000 and 1700 BCS. worshipped mainly the Aśvins and their early doubles. Mitra and

Varuna, and spoke a dialect that preserved PIE 4. The Rigwedic Indo-Aryans came to the Indus Valley between 1500 and 1200 BCB, worshipped mainly Indra with a soma cult that resembled the yame ritual of the Zoroastrians, and spoke a dialect where PIE 4 had merged with PIE 5. The first wave of Indo-Aryans was more exposed to the substratum influence of the pre-Aryan population, the Late Harappan people who spoke an early Dravidian language and had been in contact with West Asia. The "ascred marriage" of the Vedic horse, human sacrifices, and the related dikta Tantric cults are likely to go back to the Indus Civilization. An Indus seal from Chanhudaro depicts a bison bull mounting a human priestess. The buffalo sacrifice, until recently prevalent all over Dravidian-speaking South India, was connected with the yearly "marriage" of the guardian goddess of the village. (See Parpola 2015.)

The present paper discusses the ctymology of the divine name Rudni. The views currently held valid need to be revised in the light of the better understanding we now have of Rudna's character. To start with a topic discussed by Stephanie Jamson, Rudni Tryàmbaka is worshipped at crossroads with the Traiyambakaboma ritual at the end of the Sakamadahi, the last of the "four-monthly" atternadayi sacrifices. This is a send-off rite for Rudra, but may be used to find a husband for a maiden who seeks one. Aphihi cakes are thrown into the air, and then thrown at the sacrificer and his husband-seeking daughter. Finally, cakes are packed as provisions for Rudra and hung onto trees, while Rudra is asked to go away to the northern mountains without harming the participants.

Tryimbaku as Rudra's name is arcested in RV 7.99.12 (a verse which is a later addition to this hymn), but Tryimbaku is not included in the lists of Rudra's names in the Brahmana and Sürns texts. While it has long been agreed that the best explanation of Tryimbaku is 'possessing three mothers', it has proved difficult to identify these three mothers (ef. Hopkins 105;5220; Arbman 1922:291-7). Jamison (1996:241-3) points out that the Traipanhabakhoma has many elements in common with the hores sacrifice and the riess of the mahārvatid day. A mantra invoking three "mothers" in the vocative (danhe ainbak) similike) accompanies the entrance of the three other queens when the enacted copulation between the sacrificial victim and the chief queen is beginning. I argue below that Rudra is born at the "sacred marriage", which is introduced in this fashion.

2 Mayrhofer's views on the etymology of the name Rudra

The second edition of Manfred Mayrhofer's etymological dictionary of Old Indo-Aryan is a highly reliable reference tool giving currently valid etymologies for Sanskrit words. Mayrhofer's opinions are generally very sober but can sometimes be challenged. This is the case with the article on rudni- (Mayrhofer 1986–2001:2.452 3). Here Mayrhofer sticks to the views that he presented in the first edition of this dictionary (1956-1980:3.66-7), some of which go back to his paper "Der Gottesname Rudra" (1962)

As the most attractive etymology for rudni-Maythofer singles out the connection with the neuter noun*rudaer-, which can be assumed to have existed on the basis of the parallel of such word pairs as signiti-signiti-cities: citaes. The word *ridaes* is attested (from the Rigyeda onwards) primarily only in the elliptic dual riddaa' 'heaven and carth' (besides this nominative-vocative-accusative other dual case forms also occur in the Rigyeda; gen-ridaespe, ridaespe

Later, however, Mayrhofer accepted the criticism of Wust (1952:2e-a), who denied that rudn's is used as an adjectival epithet of the gods enumerated, but unstead denotes the god Rudra mentioned as an expression of the henothesin hypical of the Rigweda. Instead of 'heaven', Wüst chose 'earth' as the meaning of *rodau-, and connected rudn's with Lat. rudis' 'unwrought, crude' and rullus (? < *rnulks) a word attested only in glosses and explained as mendicus' beggar' or χωρισκή, ἀγραίως 'tustic'. Mayrhofer regards this interpretation as likely in the first edition of his dictionary (1956-80:366-77), but cites it more neutrally in the second edition, though it is still clearly his preferred choice, adding that others have understood *rudnau- to mean 'heaven' or 'crying, weeping' (from rud-, ruddis' to cry').

The latter alternative, he pointed out, belongs to the old explanation of Rudra as a 'Roarer' or 'Howler', first proposed by Albrecht Weber (1851:19-20) and then adopted by many other scholars (see Arbman 1922;282-3). A major reason was Rudra's association with the Maruts, the Rigyedic storm-gods who are called rudrāb (RV 5.60.2; 10.92.6) or rudríyāh (RV 3.26.5), and "sons of Rudra" (rudrásya sūnávah, RV 1.85.1; 6.50.4; 8.20.17), while Rudra is called "the father of Maruts" (pitar marutam, RV 2.33.1). Mayrhofer (1953:141) notes, however, that Rudra's nature as a storm god is questionable. Harry Falk (1086:63-5), indeed, has made it quite clear that in their nature the Maruts are quite different from Rudra and his destructive military troops; the Maruts accompany Indra, bring rain and fertility to people, cattle, and the fields. Mayrhofer (1953:141) also points out that in Sanskrit the root rud- is never used of the 'roaring' or 'howling' of storms, but only of 'weeping' or 'lamenting'; he concludes that Rud-ra-should therefore go back to an earlier period when rud-still had a meaning like Lat. rudere, which is used of the loud 'bellowing' or 'braying' of animals. Paul Thieme (1978:43 n. 34), on the other hand, points out that rules of word formation forbid deriving rudrá- from the set root rud i 'to cry, weep'.

Thieme's (1978:43 n. 34) proposal for deriving Rudrá- from *dru dru- 'tree breaker'

is the last but one of the etymologies that Mayrhofer (1986–20012.453) mentions in the final version of his dictionary; in my opinion Theme's etymology does not reflect any central aspect of Rudra's character. Mayrhofer finishes with an emphatic dismissal of the derivation rudnit < "rudnin" < "rudnin" < "rudnin" < "rudnin" < "rudnin" < red'. This rejection is based on the following considerations (Mayrhofer 1951:142–3). 'Red' in Vedic is not trudnis but rudnini, and several assumptions are needed to interpret rudnis as 'red'. One would have to assume that Proto-Indo-Aryan once had a "rudnin" at 'red' without s', and that this then lost its aspiration in a despartating dialect; or that rudnis - was borrowed from PIr. "rudnis", for which there is some quite uncertain evidence, the best being Shughin rüns' rüght red', which Morgensterne (1974:68) derive "through "runs or "runs" in 1953 he mentioned deaspiration as a relatively frequent phenomenon in Middle Indo-Aryan. 3 Thieme (1978:48 n. 34) agreed, stating that phonology forbids connecting rudnis with rudnishis.

Vedic Rudra is the predecessor of the Hindu god Šiva, and Ved. mis-'kindly, gracious' is cuphemistically used of the dreaded god Rudra already in the Rigveda. From Alfred Ludwig (1900:8-9) and Sten Konow (1900:4-279) to R. N. Dandekar (1931:194-5), several scholars have thought that Ved. mis- when applied to Rudra goes back to his original Dravidian name denoting 'red', attested in Tamil one- the affricate e- may be pronounced as a sibilant) to redden, to be red, to become angry', cisupps 'ruddiness, red color; anger'. But the Proto-Dravidian root from which these Tamil words are derived is "be." red', and the affrication "be- 2-e took place only in Tamil-Malayalam, and the derivative ciss- is found in Tamil alone. This was pointed out already by Mayrhofer (1933:143-3), and therewith he had, in the opinion of Wists (1953:13-4), definitively disposed of the interpretation of Rudra set he 'red' god.'

3 Primary etymology of Rudra's name: "rudhra-'red'

Ved. rudhini- is not attested in the Rigveda, but is used from the Atharnaveda onwards both as an adjective meaning 'red, bloody' (in AV\$ 5.29.10 it is an epither of a flesh-eating demon, pitdat-) and as a neuter noun meaning 'blood' (in AV\$ 5.10, where it also means 'red' as the color of the unsi-beer). In Classical Sanskrit rudhinais further used in the masculine as the name of the planet Mars. Mayrhofer (1086– 2001:2.453-4) assumes that Proto-Indo-Aryan had "rudhina-from PIE "hprud"-no'-red' (whence Gk. bubbs; Lat. ruber, Russ. ridaty, Toch. A ritar B ruttre); the change into

^{&#}x27;Mayrliofer 1986-2001:2.453. "Abzulchnen ist Herleitung aus "rudhril- 'rot' (s rudhril-), vgl. Lit. in KEWA III 67, 344."

^{*}Mayrhofer 1953:142 n. 7. Actually Old Indo-Aryan aspirated consonants mostly became h in MIA, cf von Hinuber 2001;199-64.

¹Pisani (1954) accepted Mayrhofer's argument, but suggested that the Aryans might have borrowed the Drawidian word in the form *lawa and that it became śma- in Indo Aryan. This attempt to salvage the Drawidian hypothesis is based on the erroneous assumption that the affrication of PIE *k did not take place before the Aryans had come to India.

radh-r-n-is scxplamed (since Wackernagel 1905:61, where a question mark has been added) as a contamination with the compound form rulh-i-assumed in the demon name rulh-i-h-n-f (possibly blood-scattering or blood-bestrewed) attested just once, in RV 2.14.5). I would like to propose considering -i-as a summbhatit wowel, as in Ved. anath-i-shimng's -amin-n-(lex.) (cf. Wackernagel (860-1.18), or Ved. nigna-> Pali nujina-. Such an anaptyxis is expected to take place in adjusting the complex syllable structure of Indo-Aryan to the Dravidian substratum, antinum being indeed the regular counterpart of Ved. anath-i in Tamil

Mayrhofer (1933:143) acknowledged that Pischel's (1880:120:1880:137-88) explanation of Rudra as 'red' would semantically fit very well ("Sachlich wäre diese Erklarung durchaus passend..."). The Vedic texts indeed connect Rudra with the color red. In addition to the Rigvedic references to Rudra as hubbris (1,335, 9, 15) and arrati-(1,114.5) comes for instance TS 4.5.1.2 aciasi yis tämre arung and hubbrish, with three adjectives all denoring ('dark) red', and ribinis-'deeply red' in TS 4.5.1.3 and bubbrish-'brownish' in TS 4.5.2.1.* The primary etymology of Rudra's name is in my opinion 'raddra: 'ted', preserved in its rannibinish-form radbrise, with which already Böhtlingk and Roth (183-756.48) were inclined to connect Rudra.

For Albrecht Weber (1851:19-24) Rudra was a prototype of the terrible and of rage Weber assumed Rudra to be not only the howling god of the storm with the Manuts as his armies, but also the flaming fire, which is hungry and 'howls' destructively. Rudra's arrows, which are frequently mentoned, Weber (1851:32) thought to be partly lightning boits and flames, partly diseases and epidemics.

Stephanic Jamison (1991:296—) notes that "Radra is in fact constantly identified as Agni. MS 1.6.6 eai hi rudro yaid agnih' For this Rudra is (really) Agni [n. 293; Also 1.6.7, 1.6.11; Il.1.10; Ill.9.1, etc...]...And indeed S. Insler has suggested (pers. comm.) that Rudra was originally just a fearful epither of Agni, as it is several times in the RV, e.g. IV 3.1 h or rifinama adhranisya rudrinin, hidrama sasyanisyam ridasyah / agnim... '(Him) the king of your ceremony, the fierce one, the truly worshipping Hotar of the two worlds, Agni..."

I agree with the view, stated already by Hillebrandt (1939:2-446-7), that Rudra primarily symbolizes the fire in its fierce, destructive aspect. This red element was an integral part of military raids, as graphically described in the Old Tamil poetry quoted at the end of the paper. The wilyas and writims, the raiding bands whose leaders personified Rudra, were also dressed in red turbans and red clothes (lohitanitass) when they performed their sorcery rites with the purpose of killing the enemy (Sadvinia-Brahmana 3.8.2) and Laityanna-Śmutassiim 8.5.8).

Rudra is connected with the sacrificial fire only as Agmf. Svistabrit, recipient of the final portion of the offening: this, like the fact that sacrificial leftovers belong to Rudra, seems to indicate that Rudra ends the sacrifice (cf. Hillebrand 1992:12.44—5). This is probably connected with the fact that Rudra shot Prajāpati in punishment for his incest. For Yajña, 'Sacrifice', figures as a double of Prajapati in the myths about Prajapati's incest. Actually, Prajapati/Yajña symbolizes the whole (old) world, which Rudra brings to an end. Thus he already has the role of Hindu Śiva as the destroyer of the world.

Vedic texts have many variants of the myth according to which the creator god Prajāpati desired his own daughter, usually identified with the Dawn (Uşas), and committed incest with her. In punishment for this evil deed, Prajāpati was pierced with an arrow by Rudra, the cruel god. (See Deppert 1977; Jamison 1991:1889–97.) In the AB 3.33, this myth is transferred to calendrical asterisms, Prajāpath's daughter being the star Rohinji (the large red star Aldebaran). When the sun in its yearly exple 'unities' with the new-year star,' at that very moment the 'old sun/old year' dies and simultaneously the 'mew sun/new year' its born. Instead of the yearly cycle, we can speak of the daily cycle. The "old sun" here is the "night sun" or the night/darkness which unites with the Dawn but is killed by the "new sun," i.e. the rising sun, Rudra, with the rays as its arrows.

This cosmic drama is enacted in the airamedind, where the sacrificial horse (representing the sacrificing kang and the sun) victoriously goes around the world with a military escort for one year. At the end of the year the horse is killed and made to lie with the king's chief queen in "sacred marriage." The corresponding "sacred marriage" on the mahāirnatā day also takes place at the end of the sacrificial year.

Rudra as the 'new sun' is also a newborn baby: after the Kṛṭtikāḥ (Pleiades) had replaced Rohniṭ (Aldebaran) as the new-year star(s) (around 1400 BCE, in Harappan times), Rudra became the baby of the Pleiades. Weber (1850:266) pointed out that the name Kārttikeya of the war-god is to be connected with the kārtikā-month of the autumn, when the war expeditions were principally undertaken.⁶ The Kṛṭtikāh as

^{*}Cf. Arbman 1922 2*4-1, Hillebrandt 1929 2,449, 416, Dandekar 1913 122,

[&]quot;The "new-year star" in Vedic astronomy was the asterism with which the sun was in conjunction at the vernal equinox.

^{*}Weber (1850:269) circs Pañcatantra 3,36 kárttike vátha castre vá vspajioh prasasyate / yánam uthrstavívyasya satrudeše na cányadá //

divine "mothers" are the demoniac disease goddesses that follow the war-god Skanda (Rudra's Hindu successor) on his expeditions, and who along with Skanda-graha (equated with the planet Mars) hanker after the blood of newborn babies. Blood (rudbird-) is red (rudbird-). Blood is Rudra's favorite drink (cf. Arbman 1922.1270-2181) Hillebrandt 1929:124-37. The blood of the hones is assigned to Rudra in the assammelba (cf. TS 1.4-36 ... rudra'm löhitens ...), and in the sidagawa sacrifice, Rudra and his hosts get blood as a bail-offering. Blood is naturally associated with Rudra in his capacity as the blood-shedding god of war.

The construction of the 'fire altar' (agnicia') made of 10,800 bricks (the number of "hours" in a year) is finished on the mahārmatā day. The altar reconstructs the body of the creator god Prajāpati, who was exhausted in creation. Immediately after the altar's completion, 425 ghee libations are offered into fire to Rudra, while the (attarnatriya litary is recited (5B 9.1.11-44). This litary (in MS 2.9.1-5; KS 17.11-6; KapS 27.1-6; TS 4-5.1-T1; VSM 16; VSK 17), translated and discussed by Weber (18511-4-47) and Eggeling (1882-1900:14.150-3), gives a good idea of Rudra as the cruel deity of robbers, raiders, and hunters, armed with bows and arrows, swords, and other weapons. The prodystatoma and advantable texts also describe the brutalities of the sodalities of young warriors, whose leaders personnif Rudra (see Falk 1986).

4 Secondary etymology of Rudra's name: rud- 'to cry, weep'

For the loss of aspiration in **ruldirul* > ruldirul* is not necessary to assume that this took place in a deaspirating dialect of Indo-Iranian. Hermann Oldenberg (1917:216-7) suggested that the expected *ruldirul* red" was transformed into ruldirul* in order to make the name similar to indru-, perhaps to avoid the association with the root ruldirul* to obstruct, impede, restrain, prevent. I prefer thinking that the reason was the wish to associate the god's name with the root ruld-'to ory, to weep', in its acrual meaning of 'weeping'. This is the etymology of the Brillmann texts and the ancient Indian exegete Yaka, who states in his Nirukta 10.5: ruldor rustitis state)... rollayster vid. / yud arrulat tud ruldrup ruldrutom its histibulum (quotation not traceable in the KS) / yud arrulat tud ruldrupy ruldrutom its histibulum (i.e. TS 1.5.1.1).

In the Vedic texts weeping in connection with Rudra takes place in three contexts: (r) as an archer, Rudra shoots arrows onto other beings and makes them weep; (a) Rudra is a newborn baby who cries; (3) Rudra is personified by a human sacrificial victim, whose imminent death is lamented.

Prajapat, who has committed incest with his own daughter, weeps because in punishment Rudra has shot him with an arrow: MS 4.2.12 thm abhyayityavidhyat with rothit taid vid anyaitha nhama ruturi tii "(Rudra), on taking aim, pierced him. He cried out (arrotit). And that is his name: Rudra's "(lamison 1991:291). Bows and arrows are Rudra's much-feared favorite weapon, and as a raider/warrior he shoots people and makes them cry.

Secondly, Rudra cries as a baby. This is told in the Satapatha-Brithmaps (6.1.3) as follows: "8. Now, these beings....as well as the lord of beings, the year, laid seed into Uhasa. There a boy (kumatra) was born in a year; he cried (a) *brith). 9. Prajipant said to him, 'My boy, why criest thou...?' He said, 'Nay, but I am not freed from (guarded against) evil; I have no name given me: give me a name!"... to. He said to him: Thou are Rudra.' And because he gave him that name, Agni becames unch-like...., for Rudra is Agni: because he cried (rud) therefore he is Rudra (yud drodit talmad rudruh)..." (Eggeling 1882-1900:3138-9). In the sequel (\$B 6.13.11-7), Prajiparti gives the baby eight further names: Sarva, Radupart, Ugra, Sahai, Bhava, Mahān Devah, Īšian and Kumāra. Hillebrandt (1929:2.457-60) while discussing these names points out that Rudra's being without a name refers to the cuphemistic practice of not mentioning him directly: the Brāhmana texts often speak of Rudra a 'this god' "esa draba'l.

According to the Valabials-Smatnatisms (11.12.2-3), "after having decorated him, they bring to the place the son of the noblest bard (situatorithans) paternin), a virginal youth (kumahrum asiktanettasum) to be the cutter of the horse, lamenting him as if he was to die (rudantus patish manspantam enum). For they say that formerly the head of him would fall off severed who was the first to make a cut [on the scarfficial horse]." I have suggested that this youth (kumahru) personified god Rudra, one of whose names is Kumitar. This youth was a bard; in RV 1.43.4 Rudra is gathispasti., "lord of the song!." Inis youth was virginal, had not emitted this semen, which suggests that he was destined for another "sacred marriage" that would conclude the now-beginning period of raiding, where he personified Rudra. His expected death was lamented (rud-), which connects Rudra with the dying and lamented bridgeroom of the Goddess in the mystery religions of the ancient Near East. This is a new argument for deriving Rudra's name from the root rud-.

The male partners in the "sacred marriage" of the airsanealhá, purusamealhá and maháirratá had to be chaste, i.e. they were not allowed to have any sexual relation before the final union; this was supposed to accumulate their creative power. The Hundu war-god Skanda is called Sanatamatra 'eternal bachelor', for the first time in the Chândago-1 Danniada 7,26 (i.e. thougants manthumtrah, may skanda ity štackater). In Kalidāssā Vikramorradīya (4.175) Mahāsena (i.e. the war-god Skanda) has taken the vow of eternal chastivi (unrā bhaaradā mahátsenea sūnadam kumtrurvadam genhia... = purā bhagarata mahátsenea (sidvitam kumtrurvatam grhītha").

Tamil Murukun 'youth, baby boy', alias Cēy 'the Red'

There is full reason to suspect that "Rudhru, 'the Red', really reflects a pre-Aryan and specifically Dravidian god's name after all. In the earliest Old Tamil poems, dating from the first centuries cis, before South India was subjected to a stronger Brahmanical influence, there are many references to a male god whose name means 'Redness' and 'the Red/Ruddy one', derived from the Proto-Dravidian root 'Ne- 'red; to be red, redden, become angry' (Burrow and Emeneau 1984:175 no. 1931): Cby (e.g. Akanāṇūrū 266.21, Puranānūru 14-9, 125.20; Paripātal 6.69), and with the male personal suffix Cbyan, Cbyanan, Cbyān, Cbyān (c.g. Purananuru s6.8; Tolkāppiyam, Poruļ s). In addi ton, the god is also called Vel, 'Desire' (corresponding to Sanskrıt Kāma), and Ce-v-Vel, 'Red Desire', as well as Vēlan, 'Spearman' and Ce-v-vel', 'one holding a red spear'.

Another ancient name for this principal native deity of the Old Tamil paintheon is Muruku or Murukung, still prevalent today." This latter name, which also goes back to Proto-Dravidian (having cognates in Malayalam, Toda, Tulu, Telugu, and Konda, see Burrow and Emeneau 1084:447 no. 4978), means 'tender age, child, youth, young man', being thus an exact synonym of Ved. humārii, which is among the names of both the Vedic Rudra and his Hindu successor, the war-god Skanda, with whom Murukan was explicitly identified in the later phase of Old Tamil literature. Significantly, in Dravidian there are two precise homonyms of muruku. One means 'bracelet having'e, nose-ring, ear-ring' (no. 4979), and this word has been used as a rebus to write Muruku's name in the pictographic Indus script (see Parpola 1904:225–39). Bangles are also instrumental in charms to get baby bosy, nor only in the Atharavaeda (AVS 6.81), but also in South India, where childless parents usually make a pilgrimage to a Murukan temple to pray for a son. The other homonym of muruku means 'to kindle fire into a blaze; to burn, scorch, smolder' (no. 4980), which is in agreement with the 'ffery' nature of Rudra.

Murukan is in Old Tamil poems a god of war. Kailasapathy (1968:243) writes, "The wrath of several heroes is likened to that of the god Murukan. He is described as victorious hero of terrible wrath' [Patigruppartu 11:6]. Elsewhere, he is described as cinamiku Murukan, wrathful Murukan' [Akanānūgu 39:11]." This is Murukan's characteristic also in the 16th poem of the Pujanānūgu:

"Destroying the land, your limitless army advances, with its swift horses peerless in bartle, and spreads out its shields like so many clouds, moving forward, destroying the vanguard, ravaging the rich fields, bathing elephants in the waters of the reservoirs that had been guarded, as the glare that rises up from the blazing fires fuelded by the wood of houses seems the red glow of the sun when its rays are divindling down! You who win battles with no need of allies! Your sword reeks of flesh, your chest of dried sandalpaste! Chieftain who inspires fear! Ferocious as Murugan! The land that had been defended you feed to shining fire, devastating the wide and lovely fields ..." (Ir Hart and Heifetz 1999;13)

References

Arbman, Ernst. 1922. Rudra. Uppsala: Akademiska Bokhandeln.

Böhtlingk, Otto, and Rudolf Roth. 1855–75. Sanskrit Wörterbuch. St. Petersburg: Kaiserliche Akademie der Wissenschaften.

Burrow, T., and M. B. Emeneau. 1984. A Dravidian Etymological Dictionary, 2nd ed. Oxford: Clarendon.

Clothey, Fred W. 1978. The Many Faces of Murukan. The Hague: Mouton.

Dandekar, R. N. 1953. "Rudra in the Veda." Journal of the University of Poona, Humanities Section 1:94-148.

Deppert, Joachim. 1977. Rudras Geburt. Wiesbaden: Steiner.

Dubianski, Alexander M. 2000. Ritual and Mythological Sources of the Early Tamil Poetry. Groningen: Forsten.

Eggeling, Julius. 1882–1900. The Satapatha-Brahmana According to the Text of the Mādhyandina School Translated. Oxford: Clarendon.

Falk, Harry. 1986. Bruderschaft und Wurfelspiel: Untersuchungen zur Entwicklungsgeschichte des vedischen Opfers. Freiburg: Falk.

Hart, George L. 1975. The Poems of Ancient Tamil: Their Milieu and Their Sanskrit Counterparts Berkeley: University of California Press.

Hart, George L., and Hank Heifetz. 1999. The Four Hundred Songs of War and Wisdom: The Puranantina Translated. New York: Columbia University Press.

—. 1967. "The case of the severed head." Wiener Zeutschrift für die Kunde Sud- und Ostasiens 11:22–43.

Hillebrandt, Alfred. 1927-9. Vedische Mythologie 2nd ed. Breslau: Marcus.

Hopkins, E. Washburn. 1915. Epic Mythology. Strassburg: Trubner.

Jamison, Stephanic W. 1991. The Ravenous Hyenas and the Wounded Sun: Myth and Ritual in Ancient India. Ithaca: Cornell University Press.

— . 1996. Sacrificed Wife, Sacrificer's Wife: Women, Rstual, and Hospitality in Ancient India. New York: Oxford University Press.

[&]quot;The burning buildings and the smoldering countryside are recurrent images in the poems. Like a great wind, the king spreads fire in enemy territories [Maturakkañti 126]. The warriors cut down the guards in the light of the burning flames, and drive away the cartle [Maturakkañti 691]. The king relishes plundering in the light of the burning flames, amidst the pandemonium of the cries and groans of people [Puranānuru 7:8–9]. The flower-garland of the king fades in the heat and smoke of the fire raging in the enemy's lands [Puranānūru 6:21–2]. [Also Paturuppartu 24, 26, 43, 48, for slaughter, devastation, and destruction by fire.]" (Kailasapathy 1968:79; the references given in footnores have been inserted in the text, giving full names of the Old Tamil texts instead of abbreviations).

On Murukan, see Hart 1975.21-31, Clothey 1978, Zvelebil 1977; 1991, Dubianski 2000.

- Kailasapathy, K. 1968. Tamil Heroic Poetry. Oxford: Clarendon.
- Konow, Sten. 1906. Linguistic Survey of India. Vol. 4, Mundā and Dravidian Languages. Calcutta: Government of India.
- Ludwig, Alfred. 1900. Über die Verbalflexion der Dravidasprachen. Prague: Königl bohmische Gesellschaft der Wissenschaften.
- Mayrhofer, Manfred. 1953. "Der Gottesname Rudra." Zeitschrift der Deutschen Morgenlandischen Gesellschaft 103:140-50.
- 1956–80. Kurzgefasstes etymologisches Wörterbuch des Altindischen. Heidelberg: Winter.
- . 1986–2001. Etymologisches Wörterbuch des Altindoarischen. Heidelberg: Winter.
- Morgenstierne, Georg. 1974. Etymological Vocabulary of the Shughni Group. Wiesbaden: Reichert.
- Oldenberg, Hermann. 1917. Die Religion des Veda. 2nd ed. Stuttgart: Cotta.
- Parpola, Asko. 1994. Deciphering the Indus Script. Cambridge, UK: Cambridge University Press.
- 2013. "Beginnings of Indian astronomy, with reference to a parallel development in China." History of Science in South Asia 1:21-78.
- 2015. The Roots of Hinduism: The Early Aryans and the Indus Civilization. New York: Oxford University Press.
- Pisani, Vittore. 1954. "Und dennoch Rudra 'Der Rote'." Zeitschrift der Deutschen Morgenlandischen Gesellschaft 104:136–9.
- Pischel, Richard. 1886. "Vedica." Zeitschrift der Deutschen Morgenländischen Gesellschaft 40:111-26.
- ——. 1889. "Rgvcda 6,49,8." In Vadische Studien I, by Richard Pischel and Karl F. Geldner, 11–77. Stuttgart: Kohlhammer.
- Thieme, Paul. 1978. "Über einige dualistische Bezeichnungen von Himmel und Erde im Veda." Zestschrift für vergleichende Sprachforschung 92:32–49.
- von Hinüber, Oskar. 2001. Das altere Mittelindisch im Uberblick. 2nd ed. Vienna: Österreichische Akademie der Wissenschaften.
- Wackernagel, Jakob. 1896. Altindische Grummatik. Vol. 1, Lautlehre. Göttingen: Vandenhoek & Ruprecht.
- . 1905. Altindische Grammatik. Vol. 2, part 1: Einlestung zur Wortlehre; Nominalkomposition. Gottingen: Vandenhoeck & Ruprecht.
- Weber, Albrecht. 1850-1. "Analyse der in Anquetil du Perron's Uebersetzung enthaltenen Upanishad [I-IV]." Indische Studien 1(2):247-302; 1(3):380-456; 2(1):1-III; 2(2):170-236.
- Wüst, Walther 1955. Rudrá-, m. N.pr. Munich: Kitzinger,
- Zvelebil, Kamil V. 1977. "The beginnings of bhakti in South India." Temenos 13:223-57.
- . 1991. Tamil Traditions on Subrahmanya-Murugan. Madras: Institute of Asian Studies.

Rebels without a Causative

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Besonders bei der Konsultation des Verbum-Teils rezenter indogermanistischer Handbucher bzw. speziell dem indogermanischen Verbum gewidmeter rezenter Arbeiten stellt sich immer wieder der Eindruck ein, daß einerseits Angaben aus älteren Handbüchern eher unkritisch übernommen werden und andererseits ganz generell eher dogmatisch-deduktnv als ergebnisoffen-induktiv vorgegangen wird. Wie mit scheint, wirkt hier immer wieder als ein nicht offen deklariertes Grundaxiom die vorgefaßte Meinung, in der rekonstruierten Grundsprache oder doch wenigstens in einer unmittelbarten Vorstuffe von dieser müßte das Prinzip "one meaning-one form" ausnahmslose Güllickeit bessessen haben.

Wie ganz anders verhält sich da die Honoranda: in all ihren Arbeiten und so auch in ihren viclen jeweils grundlegenden Beiträgen zum Verbum' verhört sie, geleitet von Skepsis gegenüber traditionellen Lehrmeinungen,³ zumächst einmal die Fakten und gelangt darauf durch Induktion zur Hypothesenbildung.

Als Beispiel für solch unterschiedliches Verhalten der Honoranda einerseits und auch recht rezenter Handbucher andererseits sei hier jene Kategorie von augenscheinlich deverbativen Präsensstämmen genannt, bei denen ein Suffix *-fipl- an eine Verbahvurzel in der 9/6-Stufe anzutreten scheint* und die gerade auch wieder gemäß den rezenten Handbüchern schon in der Grundsprache gleichermaßen als "Iterativa" und als "Kausativa" fungier haben.

Um die Gültigkeit des Prinzips "one meaning-one form" zumindest für eine Vorstufe der rekonstruerten Grundsprache zu retten, hat man immer wieder versucht, eine der beiden angeblichen grundsprachlichen Funktionen "Iterativ" und "Kausativ" aus der anderen herzuleiten. Rasmussen (1989:150f.) sah "mur eine Antwort" auf die Frage, "wie zwei so anscheinend grundverschiedene Funktionen wie Kausativität

¹Vgl. außer der Monographie Jamison 1983 insbesondere Jamison 1997, 1999, 2008 und 2009.

Vigl. cave alse goldenes Worre bezüglich einer "unquestioning scepance of the assons, parameters, and conditions on Scholans associated with ori influenced by the "Erizaging School". "Needless to say, this school has controbuted more to our understanding of Indo Transas grammar in the last half ectionry data my other set of scholars taken as a group. Poseetheless, it is healthy to remember that their word presents hypotheses, which should be subject to the impection and criticism of other scholars, not established truth".

^{*}Ich folge Brent Vinc (2012:548-55) in seiner Ablehnung eines idg. Nebentyps R(d)-yu/a-; vgl. auch Tremblay 2012:4216

und Iterativität sich in einem Ausdruck vereinigen lassen": seiner Ansicht nach "lag beuden Funktionsgruppen die kausativische Funktion, und nur sie, zugrunde". Was die entgegengesetze Strategie anlangt, so hat Kolligan (2004) in einem Übergang von "Iterativ-Intensiv-" zu "Kausativ-funktion offenbar geradezu ein linguistisches Universale sehen wollen 'Mit "Iterativ-" und "Kausativ" wird die tatsachliche Art und Weise der Verwendung dieses Bildetyps allerdings nur völlig unzulanglich wiedergegeben.

In bezug auf die angebliche "iterative" Funktion haben just die Urhandbücher der modernen Indogermanistik wesentlich differenzierter als die späteren Handbücher geurteilt. Delbruck (1897:109-13) spricht in bezug auf seine beiden Hauptbeispiele ai. patáyatí und griech, φορέω ausdrucklich von "iterativ-zielloser Bedeutung" statt einfach von "iterativer", und Brugmann ist ihm gleich darauf gefolgt; daran hat Hock (1995:74 Anm. 2) crinnert und dabei auch betont, daß Delbrücks "Charakterisierung [...] eine starke Stütze in den slavischen sogenannten "iterativen" i-Verben" finde. Tucker (1990:140, 145f.) wollte bei den homerischen angeblichen "Iterativen" dieses morphologischen Typs überhaupt keine iterative Semantik ausgemacht haben,7 und García García (2005:41) urteilte: "In den germanischen Sprachen lassen sich kaum Spuren einer intensiv-iteriven [sic] Funktion des jan-Suffixes finden", ohne aber deshalb eine solche Funktion für die idg. *- éje/o-Bildung bestreiten zu wollen (García García 2005:44). Deroy (1993:98f.) kam auf Grund einer neuerlichen Untersuchung der homerischen Verwendung von griech. φωρέω zum Schluß "que les verbes dérivés à vocalisme radical o et à suffixe *-ey-e/o- expriment des procès complexes, multiples, qui ont tantôt des sujets nombreux, tantôt des objets divers, intervenant successivement ou simultanément ou en désordre", und wollte als Terminus heber "fréquentatif "empfehlen. Kulikov (2008) bestatigte demgegenuber auf der Grundlage einer neuen, sehr sorgfältigen Untersuchung des Gebrauchs von ved, natigsari Delbrucks Charakternisterung der Sermantik dieses Verbums als "ziellos" ("antelie"). Echte Iterativa scheinen aber immerhin einige der dischronisch gewiß herhergehörigen halbthematischen 4. Prasentien mit Inflintivatumm unf –4 des Baltssche und

Was die sogenannte "kausative" Seite anlangt, so hat meines Wissens just erst die Jubilarin bewußt gemacht, daß es im Vedischen eine Reihe von einschlagigen transitiven Bildungen wie chādayati 'bedecken' oder dhāráyatı 'halten' gibt, die weder in Opposition zu noch in Konkurrenz mit anderen Präsensstammbildungen von der betreffenden Wurzel stehen,9 und so den entscheidenden Nachweis dafür erbracht, daß den vedischen Vertretern des hier besprochenen Bildetyps (vom isolierten patáyatt 'atelisch fliegen' abgeschen) durchwegs vielmehr die Eigenschaft der Transitivität gemeinsam ist. Nur daß der Bildetyp im RV des weiteren viele oppositionelle Transitiva bei unakkusativischen Wurzeln, hingegen eigentliche Kausativa weitgehend¹⁰ nur bei unergativischen Wurzeln stellt," war schon zuvor mehr oder weniger explizit zum Ausdruck gebracht worden.12 Schließlich hat die Honoranda in ihrer Monographic auch als erste nachdrücklichst darauf hingewiesen, daß eine gewisse Anzahl einschlägiger vedischer (und auch avestischer) Bildungen durch 'machen + Verbaladjektiv' (z.B. 'makes perceived', 'makes awaken', 'makes scen') zu übersetzen ist; 13 dies ist ein Gebrauch, der wohl am besten ein "faktitiver"¹⁴ genannt wird und wenig später auch tatsächlich diese Bezeichnung erhalten hat: Da oppositionelle Transitiva vielfach auch just vom selben Stamm wie das entsprechende Antikausativum gebildet werden (Tvpus ved. párdhati / párdhate), wobej in der Grundsprache ein Antikausativum offenkundig bisweilen sogar noch als sein eigenes oppositionelles Transitivum (und vice

^{*}Dabet setzt Rasmussens Erklärung offensichtlich eine ursprüngliche Funktion (auch) als Kausativa zu transituen Wurzeln voraus.

[&]quot;Vg1 umbenndere Kulligan 1004/1246." Der in den indogermanischen Sprachen off zu beehnehetende Zusammerhang von Inerativ-/Imrenne- und Kausstirvbluhungen findet sich auch in anderen Spezichten der Zusammerhang beim Sprachtimmte darstellen, ondern auf einem Rogischerweise allegmein gultigen Zusammerhang humweien. Alle einer von scherlich mehreren möglichen Grammsthaliscrungsgefen auf ärt den Er ile Erterwicklung von Iteratrivbludingen über die Ieration des Stupkets zu Komittanven und von diesen zu Kausamven vorstellen "(Benerknawsverterweise felhten in der Lieratriufte zu Kolligen zook die sehne orwähnte Monegappie Rasmussen 1996 kennes werde gliechen auf Sprache kommende in dogermanistischen Arbeiten Redurd 1972, Jamison 1948, Jubonsky 1969, Turket 1990, Monten in eine Sprache kommende in des in der Vinneren Pluraftari gewenn sein, das beiden Aktonosatron eiger Intensvöldungen raug das Mornen der 'unneren Pluraftari' gewenn sein, das beiden Aktonosatron eiger (terratve: Wiederholmig der Handlung, 'Kausawa 'Doppies Subplech'; 'Gu Garda Garda (1004).

Ann 49) tragt deze Behaupung Messen jedenfülle einer angeblichen "dereumselsprachlichen Gefunge" einer "Verkruftigung ein von friester Terratvor und Kausatvorit I. – Il Rechnunge".

^{*}VgJ auch schon Redard 1972;1184 f just in bezug auf Slavisch und Griechsch gibt sich Kurylowicz. (1010 87) freilich zuversichtlicher: "L'ancienne valeum uferative de laukéji/o- [...] est solidement établie en slave, moins bien en grec. Partout ailleurs elle a disparu."

^{*}Siehe Stang 1966:325.

^{*}Vgl. v.a. Jamison 1983:78-104 ("Non-Causative -dyn-Transitives") und 182.

¹⁰ Für einschlagige vod. Bildungen von augenscheinlich transitiven Wurzeln vgl. v.a. Tichy 1980 und 1993 sowie zuletzt Lazzerom 2009.8-10.

[&]quot;Terminologie von Malzahn 2010;50, 56-8 und 2013:136f. Ber García García 200;3af. entsprechen in etwa. Kausativa" von "inaktiven intransitiven Verben" bzw. "Kausativa" von "agentiven intransitiven Verben" bzw. (sc. nur "ungestiven") "transitiven Verben.

¹² Vgl. Thieme 1929:18-23, Kurylowicz 1956.89 und 1964:87, Redard 1972:187

¹³ Vgl. 20sbes, Jamison 1983;161f., 166, 17sf.

versa) fungieren konnte,8 schlug Lubotsky (1989:109-11) offenkundig zwecks Rettung des Prinzips "one meaning-one form" (das eine alte Synonymie von várdhați und vardháyats ausschließt)16 vor, daß die Bildungen vom Tvp vardháyati ursprünglich just exklusiv "factitiva" (d.h. Verben mit Bedeutungen wie 'make seen, heard, known, touched') gewesen seien.17 Da sich "Kausativa" im weitesten Sinn des Terminus (d.h. unter Einschluß der oppositionellen Transitiva) und so verstandene "Faktitiva" semantisch nur im Fall einer zugrundeliegenden transitiven Wurzel gravierend unterscheiden, könnte man nun im Hinblick auf möglicherweise grundsprachliches *suōp(e)je/o- '(cingeschlafen machen =) (ein)schlafen machen' erwagen, daß unser Bildetyp doch schon in der Grundsprache regelmäßig echte Kausativa zu unergativischen Wurzeln wie etwa eben *suep- '(ein)schlafen' geliefert hat.18 Allerdings bewiese die Existenz eines idg. *suöp(e)ie/o- '(ein)schlafen machen' allein noch lange nicht die grundsprachliche Existenz einer eigenständigen morphosyntaktischen Kategorie "Kausativ" (sc. von unergativischen Wurzeln), und besagtes *suöp(e)ie/o- ist für die Grundsprache jedenfalls nicht besser gesichert19 als erwa *#10/05eie/o- 'bekleiden', das m.E. zu einer unakkusativischen Wurzel gehört²⁰ und letztlich ein *uér-ti verdrängt²¹ hat.32 Andererseits findet man im Vedischen wie im Griechischen auch immer wieder Kausativa zu unergativischen Wurzeln, die nicht mit *-éje/o- gebildet sind,23 ja ved. tiráti stellt offenbar sogar ein einschlägiges Kausativum ohne *-éie/o- zu einer transitiven Wurzel dar. A Die Jubilarin wie auch die anderen Rebellen gegen die Annahme einer schon grundsprachlichen distinkten morphosyntaktischen Kategorie "Kausattv" (bzw. "Iterativ Kausativ") sind also zweifellos im Recht.

Freilich trägt Lubotskys augenschemliche Annahme einer grundsprachlichen morphosyntaktischen Kategorie "Faktitiv" auch nicht allen einzelsprachlichen Gebrauchsweisen unseres Bildetyps hinlanglich Rechnung. Nach dem weiter oben Dargelegten finden wir bei diesem in den diversen Einzelsprachen deskriptiv nicht nur zwei, sondern sogar eine Vielzahl unterschiedlicher Funktionen vor: die einer atelischen Variante von telischen Prasensstammen, die eines echten Iterativs, die einer transitiven Präsensbildung bei gleichzeitigem synchronen Fehlen von konkurrierenden/kontrastierenden anderen Präsensstämmen - d.h. die einer transitiven Primarbildung, die eines oppositionellen Transitivs bei unakkusativischen Wurzeln, die eines Faktitivs sowie die eines echten Kausativs bei unergativischen und auch transitiven Wurzeln; letztere Funktion liegt etwa deskriptiv in lat. doceō 'lehren' vor, dies ein echtes Kausativum der ursprünglichen Bedeutung 'iemanden etwas aufnehmen machen' von der transitiven Wurzel *dek- 'aufnehmen, annehmen', wobei ein solches *dokéje/o- formal allerdings auch in griech. δοκέω fortgesetzt scheint, das vielmehr sowohl 'meinen' als auch '(gut) scheinen' bedeutet; am nächstliegenden ware es zweifellos, 'meinen' auf 'annehmen' und '(gur) scheinen' auf notabene passivisches 'angenommen werden' zurückzuführen. 35 Namentlich im Hinblick auf den Umstand, daß sich die genuin kausativische Funktion leicht aus der oppositionell-transitiven ableiten laßt (und im Fall der letzteren bloß ein einziger Agens vorliegt), vermogen die oben angeführten Herleitungen der angeblich bloß zwei verschiedenen Funktionen "Iterativ" und "Kausativ" aus jeweils einer dieser beiden durch Rasmussen, Kölligan und Meiser nun allesamt nicht mehr zu befriedigen.

Zielführender scheint mir ein anderer Weg, der schon oft beschritten, aber bislang noch kaum ausgeschritten worden ist: Eine alte These besagt, daß unser deskriptiv deverbaler Bildetyp seinen Ausgangspunkt in alten Denominativa von o-Stammen mit o-Stufte der Wurzel besessen hat; ²⁶ so etwa Reichelt 1909:118 (mit dem Zustatz "Dazu

[&]quot;Vgl. Malzahn 2012 236f., such Pooth 2004,451-9.

[&]quot;Tassichlich fungeren sowoll im Vedischen ist auch in emigen anderen ide, Sprachen zustatlich noch Nasalprisentien als oppoutnonelle Transitrus, vgl. u.a. Hollifield 1977;167 (*Beptier, oppositional modicie" zu 'benzeigt, man vgl. auch greich, viewer : sejenem, sejenjewe : sejeneme (sejene to den har nach Tremblay 2012;458 sejeneme intere Verhisch-ir prendir crueralt). Jamuson sejeste Amn. 12 mit lär., Meszer 1993, Bernoci 2002, Lezzeroli 2005;12-2 und Mažalba 2012;27 mit westere lär, für Mažalbar (met Lir, waren oppositionelltransiture Formen vom selben Stamm wie das Antikaussmum am archaschten. Im Heith. 1st Jahneszi füllen' met Fra deutschlich ünser ils daß "Winnesen", vsl. Kelebong zooch staf.

[&]quot;So implizit offenbar auch Tichy 1980.15-8; vgl. Tichy 1993:457 ("Deverbale Ableitungen mit dem Suffix undg. "-ffe-[...] bedeuten ')dn. oder etw. in den vom Grundverb bezeichneten Zustand versetzen").

[&]quot;Vgl Mažakh 2012/27, Lazzroni (2009/13) schen in der Tat der Meinung zu sein, daß die ved. //wBildung eher bei den unergativischen Verben als bei den unakkusativischen ursprünglich gewesen sei.

[&]quot;Vgl. crwa die bei Vine 2012:548f. genannte Literatur und Tremblay 2012:423.

toVgl. Jamison 1983:133 Anni. 60, Malzahn 2010:98, 897.

¹¹ Vgl. Malzahn 2010:897 und 2012:236 Anm 11.

^{MV}/gl. Jamson 1933 118 Ann. 12, die anders als Lazzeroni verlmehr folgende ungrungliche (komplementer) Distribution von Nasalpasienium und «jas-Präsennen verumete, "fle he nassl mits formet det harzertzud trans, presents to roots fundamentally inflected in the sociat, the "negrade "spie-formanon may lawe transpetentally trans, presents to roots fundamentally inflected in the present"; bei cities resident unspirate spiechen Distribution midde es jedenfalls von Andrag an auch eine große Antahl von oppositionellen Transtrus unter ein «sie-Presenten Geserbein haben.

¹¹V.J. etwa ved jósna "åt werden lassen" (Iamison 1981;164) / junisum "återn – binfillig werden lassen" (Jamison 1981;164) / junisum "återn – binfillig werden lassen" (oder grech. Pion "broffen machen" (vyl. Auggulati 1991;464) Da swed. Importe fat databat (D werden ungswerengung zu 'traf in den Melkeimer' > 'gab Milch' oder eine komplexere Bedensungserenviedung under traf eine, revens ach als treffile, war ergebte (pgl. P broth 2004;454), Jedrefer 2m 1981 hilbit) zu inplaneren schennt, besages sänkat(t) set nun aber auch selbst in der kausstrivschen Bedeutung "machte Milch geben, milch bezeugt, und ein namidtes gulft für der füllen serts (reuthungschödens aktivischen und meisten, milch bezeugt, und ein namidtes gulft für der füllen serts (reuthungschödens aktivischen und meisten, milch bezeugt, und ein namidtes gulft für der füllen serts (reuthungschödens aktivischen und meisten.)

dalen Formen mit Primarendungen wie dubdens. (Alt war hier wohl ein athematisches Wurzelpräsens mit Narten-Ablaut, vgl. Tremblav 2006 266 Ann. 25.)

^{**}Vgl. erwa Tichy 2004 und Hill 2007/140 ("'etwas (Akk.) bewegen', 'etwas (Akk.) befordern'**); man beachte auch, daß mr Fall von truits der Aorist des (transativen) Grundwebs idairit als sein eigenes (genuines) Kausativum füngeiere (Tichy 2004;967 Aun. 7, Hill 2007;157-9.

[&]quot;Ganz anders Tichty 1960. 16 (howit jan., ex schennt mur (gun)" untprunglich "dan (Dan.) etw. (Akk.) geuse, annehmbar, erfaßbar werden lassen") baw. Tichy 1996. 81 Ann. 26 (Bedeutung 'meinen", "veilleinti" ent sekundar nach 86mä jan, und dies "dann "och erwecke den Eindruck bei mur baw. "et gluube von mit""); man beachte, daß für Kloedhons 2006. 81z die Verbindung von 86më it seems' mit der Wurzel "466" aufnehmen, annehmen", "seen quie millicht). [16 serzannate reasons"

⁵⁰Daneben gab oder gibt es auch noch andere Hypothusen, die mit einem denommalen Ursprung operene, so die ausmenlich von Luborsky 1989-110f. (modifizuert) wederbezeber These Brugmanns, daß es sich ursprünglich um Ablenungen von nonmalen "Stammen gehandelt habe. Diese leuchten morphologuds freidisch allesamt überhaupt nicht ein, sehe die ausfährliche Widerlegung durch die Jublarm (Jamsson 1981;12:-41).

wurde auch die doppelte Bedeutung [...] stimmen"), Margulićs 1931:88–91, Kurylowicz 1936:86, 94, Redard 1972:186–89, Szemerányi 1990:296, Monteil 1992:334, Deroy 1993:99 mrt Lit., wohl auch LIP* 23 ("Die Doppelbedeuung des Bildungstyps
ist ehr verständlich, wenn die Bildung denominalen Ursprungs war") und Meier
Brugger 2010:56.* Wie man sicht, hat man mit einer solchen Analyse zum Teil auch
schon die angebliche Doppelfunktion des Bildetyps zu erhellen gehofft, ohne daß man
aber bisher auf die dabet zu mutmaßende semantische Entwicklung detaillierter oder
jedenfalls uberzeugend eingegangen ware.

Nimmt man an, daß dem Bilderyp letztlich dekasuelle *igh-Ableitungen von Instr. 3g. Formen abstrakter *o-Stamme auf **e-e **e-th, zugrundeliegen, **is on hat man als ursprungliche Semantik *mit Abstraktum X sein/werden/machen* zu gewärtigen. Aus einer derartigen Grundbedeutung** lassen sich die retal bezeugten Verwendungsweisen* in der Tar allesamt problemlos herleiten, wobei natürlich die Vermutung auf der Hand liegt, daß zahlreiche einschlägige Bildungen sehon in der späten Grundsprache recht spezifische Bedeutungen angenommen hatten. Derartige grundspracher bei Bildungen mit jewells auterziehtlacher semantischer Spezialisierung konnten dann jeweils in den Einzelsprachen als Musterformen produktiv werden und die Grundlage für einzelsprachliche morphosyntaktische Kategorien von unterschiedlicher Funktion bilden. 11**

Für die Deutung des Präsensstammtyps R(o)-tje/o- / R(b)-tje/o- als von dekasuellem/denominalem Ursprung läßt sich nun m.E. auch noch morphologische Evidenz aus dem Griechischen (und vielleicht auch aus dem Hethitischen) anführen:

Nach einer auf Karl Hoffmann zurückgehenden Mutmaßung "aonsts belonging to denominative presents (in PIE "-ji/o-) werte/could be provided by a phrase consisting of the instr. sg. of the noun that was basic to the respective denominative present on the one hand and a form of an auxiliary verb on the orber hand", wobei die Formen des Hilfsverbs aber auch ganzlich weggelassen werden konnten (Malzahn 2010:146, vgl. 136). Das impliziert, daß z. B. von einem ursprünglich dekasuellen/denominalen und bloß synchronisch deverbalen Präsens "dukt-itib- eine noch grundsporachliche

3.Sg. Aorist *(e-)doke (vgl. etwa den griechischen Aorist ĕҳҳамҳм) erwartet werden durfte.

Nun heißt es üblicherweise freilich, daß die deskriptiv deverbale R(o)-éje/o- / R(o)eje/o- Präsensbildung in der Grundsprache keine eigenstandigen Aonstformen neben
sich gekannt habe; vgl. jungst Weiss 2012:15f: "It is generally agreed that iterativecausative imperfective stems did not make corresponding non-imperfective stems in
Proto-Indo-European. The individual daughter languages have filled out their paradigms in the post-protolanguage period."

Auf diese Weise wird man aber der außerpräsentischen Stammbildung der beiden griechischen einschlagigen Verben δωέω und ώδω» 'stoßen?13 schwerlich gerecht. In bezug auf das erstere Verbum liest man bei Schwyzer 1933:738: "Ursprünglich waren die Iterativa und Kausativa auf -δω - δω (wie die Denominativa!1) nur präsentisch [...], während die übrigen Tempora vom allgemeinen Verbahstamm gebildet en. Dieses Verhältnas ist in einigen Resten bewahrt: att. δωδω: 1 δύρω 1 δοξω 2 δοξ

Tatsáchlich folgen δωκόυ und ἀθκω deskriptiv einfach einem im Griechischen gut bezeugten Flexionstyp präsentisch Stamm $X + 4\omega_0 / 4\omega_0 \omega t$: außerpräsentisch (Futur, Aorist) Stamm $X + \sigma - v$, wie man jedenfalls bei Hirt 1921; 300 nachlesen kann, 4 wobei diese beiden wichtigen und frequenten Verben zweifellos gerade jene Verben mit genanntem deskriptivem Paradigma sind, die man am ehesten als duschronischen Ausgangspunkt für besagtes flexivisches Muster vermutten möchte. Auf $\dot{\omega}\theta \dot{\omega} \dot{\omega} - läkt$ sich Wackernagels böchtst gezwungene" Erklarung für be§- nun nicht übertragen: da die Wurzel augenscheinlich auf 4 -

³⁷. Die Doppelbedeutung des Bildungstyps erklar och am besten, wenn we für die Bildung denominalen Untprung postulieren, vgl. undig "man: 'einen Gedanken fasten!' [...] mit dem Abstrachtin "mitte.' klass Fasten von Gedanken! '2.0 "mitte. ware dann mit denominativen: je- die Form "mitte/je-ti gebildet "besorgt das Fasten von Gedanken! '5.0. 'macht darna denheim!" — words notabnen vod. mitanjusti mit seiner fishninven Bedeutung "most, nagesehen, respektene" (Junisco) außstjust) überhaupen nicht stimmt.

Laryngalschwund (se. nach Kuspers Gesetz) konnte sich zumindest im Fäll einer Positionierung solcher Instr. Sg. - Formen am Satzende im Rahmen bzw. als Fölge eines prächkativen Gebrauchs unter Weglassung der einsprechenden Hülfsrehörenn eingestellt haben

²⁶ Vgl Tichy 1993-457. "Deverbale Ableitungen mit dem Suffix undg. " die. » ved. "dyn- sind von Hause aus versten den Deckuten teils in dem vom Grundverb bezeichneten Zustand sein", tet.s) din oder etw m den vom Grundverb bezeichneten Zustand sein", tet.s) din oder etw m den vom Grundverb bezeichneten Zustand versetzen."

¹⁰ I.e. etwa auch die Konstruktion von lat 11000 'schaden' mit dem Dativ.

³¹Vgl. schon Margules 1931.88

¹² Vgl. García Ramón 1998-152, Tremblay 2012:438, Vine 2012:550.

³³Diese haben gemäß Karl Hoffmann freilich sehr wohl schon in grundsprachlicher Zeit über spezielle Aoristbiklungen verfügt, siehe gerade oben im Text.

¹⁴Vgl. auch Risch 1974:308 ("Nicht ganz selten ist -έω neben Aorist auf -σα").

³³Men hatte bei einem ungeunglichen Steanno (Ysdelfijß is "dele und spättere analogischer Einweitung des Präsensstrumes auf den Aonst a prion eher gleich einen vollständigen Einstz von "dele durch (Ysdelsig-E-erwaren sollten, und Zwege ist ja in der Tat namenflich in der Sprache der Poeue (von Hönner aus) sehr gur bezougt. Vgl. allerdings auch den nur partiellen Einfluß von Zwe in homer. Zwiewere "schuen" (Wackermage) 1906-63).

³⁶Die Angabe bei García Ramón 1998:151 "madh (sekundar auch madh)" erschließt sich mir nicht, der vedische Aorist hat von Anfang an und immer wurzelschließendes -i-

61: 3³⁷ und findet sich neben diesem hochfrequenten ωσ- gar kein δοξ-, sondern allein die evidente Neubildung δοσησ-.

Dementsprechend mussen (*)/w/w/#ci/y/w- und (*)/w/w/ci/y/w- indenfalls zunachst cinmal synchronisch als (*)/w/w/#ci/y/w- und (*)/w/w/w- i/w/wmalysiert worden sein, was
wiederum die einstige Existenz entsprechender deskriptiv thematischer Aoriste
(*e)/w/#-* te bzw. **(*e)/w/w- i/w/w(*e)/w/#-* te bzw. **(*e)/w/w**(*e)/

Die grundsprachliche Existenz einer entsprechenden aoristischen 3.5g. *dakk vermag dann auch eine Erklarung für das herhitusche Präsens 3.5g. dakki 'gleichen' (semantisch zwerfellos aus 'scheinen' herleitbar, vgl. griech. *döpaa 'scheinen' und' 'gleichen') van liefern, das ja augenscheinlich möh direkt mit griech. *bosto 'scheinen' gleichesetzt zu werden vermag; '* dakki : * "dokg kann dann nämlich als inneranatolische sekundäre Hinzubildung auf der Grundlage des steus-Prinzips*" just zu jennem alten Aorist *dokg gedeutet werden, den wir gerade als Vorform von griech. *dokg ausgemacht haben, 't

Abkürzungen

LIV² = Ktimmel, Martin und Helmut Rix. 2001. Lexikon der indogermanischen Verben. Die Wurzeln und ihre Primärstammbildungen. 2. Aufl. Wiesbaden: Reichert.

Literatur

- Bertocci, Davide. 2009. "Nasal presents and 'weak' causativny: Evidence from Sanskrit and Latin." In Early European Languages in the Eyes of Modern Linguistics Proceedings of the Colloquism on the Ancient Indo-European Languages and the Early Stages of the Modern Romance, Germanic and Slavonic Languages 28 September-1 October 2008, Brno, hrsg. Katerina Loudová und Marie Žáková, 37–46. Brno: Masarsk University.
- Brugmann, Karl. 1913. Griechische Grammatik. Lautlehre, Stammbildungs- und Flexionslehre, Syntax. 4. Auflage bearbeitet von Albert Thumb. Munchen: Beck.
- Delbrück, Berthold. 1897. Grundr
 ß der vergleschenden Grammatik der indogermanisehen Sprachen. Bd. 4, Teil 2, Vergleschende Syntax der indogermanischen Sprachen. Strassburg: Trübner.
- Deroy, Louis. 1993. "Sur les verbes fréquentatifs et causatifs en indo-européen." In Comparative-Historical Linquistics: Indo-European and Finno-Ogric. Papers in Honor of Orwald Szemerényi 3, hrsg. Bela Brogyanyi und Reiner Lipp, 91–101. Amsterdam: Benjamins.
- García García, Luisa. 2005. Germanische Kausativbildung. Die deverbalen jan-Verben im Gotschen. Göttingen: Vandenhocck & Ruprecht.
- García Ramón, José Luis. 1998. "Indogermanisch "p"^{ben-} '(wiederholt) schlagen', 'töten'." In Mir Curnal: Studies in Honor of Calvert Watkins, hrsg. Jay Jasanosf, H. Craig Melchert und Lisi Oliver, 139–54. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Hill, Eugen. 2007. Die Aorist-Pr\u00e4sentien des Indotrantschen. Untersuchungen zur Morphologie und Semantik einer Pr\u00e4sensklasse. Bremen: Hempen.
- Hirt, Herman. 1912. Handbuch der grzechischen Laut- und Formenlehre. Eine Einführung in das sprachwisenschaftliche Studium des Griechischen. 2. Aufl. Heidelberg: Winter.
- Hock, Wolfgang. 1995. "Die slavischen i-Verben." In Verba at structurae. Festschrift für Klaus Strunk zum 65. Geburstag, Insg. Heinrich Hettrich, Wolfgang Hock, Peter-Arnold Mumm und Norbert Oettinger, 73–89. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Hollifield, Patrick. 1977. "On the system of conjugation in Proto-Indo-European." Ph.D. Diss., Harvard University.
- Jamison, Stephanie W. 1983. Function and Form in the -áya-Formations of the Rsg Veda and Atharva Veda. Göttingen: Vandenhoeck & Ruprecht.
- ---. 1997. "Syntactic constraints on morphological change: The Vedic imperatives bodhi, debi, and dibehi." In Syntaxe des langues indo-trantennes anciennes. Colloque international – Sitges (Barcelona) 4-5 mai 1993, hrsg. E. Pirart, 63–80. Sabadell. Editorial AUSA.
- 1999. "Once more, yet again, the Vedic type dheyam revisited Metrical

[&]quot;Betont von García Ramón (1998,112)

[&]quot;Vgl. Risch 1974;247, 300, 308 ("Nicht selten sind Prasentien auf -6ω, Futura auf -9σω (Aoriste auf -9σω) neben thematischen Aoristen").

[&]quot;Eine solche ist be zibensänligken Ehrmanischen Aonsten generell unterhieben (vg.) freilich das Fahrm«σίξωμ» "erfüller michen" Od. 11,302; der thematische Aonst Einzu- halbte gehorne (pust zu einem Prüssen

auf «in, κ. στογεία Traisen", das seinzments wegen des Aonstes Einzu- + « synchronisch als «παγ- + ε ün aufgefalts

zu werden hatte), dech mußlen ein "«nicht + e und in "«pill" » wegen hire» «μί? Voldals in der Wurzelsüllennerhalb der generell schwundstüßigen hemanische Aonstein einhendes solleren reichienen

^{**}Sc wegen der augenscheinlichen (und erwarteten) Vertretung von idg. **uo/isrie/o- 'ankleiden' durch ein herh Verb der mi-Konjugation, anders über herh. www.ezzi usw. Kloekhorst 2008/1005-7.

[&]quot;Malzahn 2010;267f. Eine analoge Erklarung bietet sich dann auch für hich. labi" "umlegen" an, das man im Himblick auf die uppositionell-transitive Semantik sicherlich gerne auf ein "logi" jei [die zuruckgeführt hätte, gel zuletzt Klockhorst 2006 (staf.

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- marginalia to a persistent problem." In Compositiones Indogermanicae in memoriam Jochem Schindler, hrsg. Heiner Eichner und Hans Christian Luschützky, 165–181. Praha: Enigma
- . 2002. Rezension von Martin Joachim Kummel, Das Perfekt im Indoiranischen [...] (Wiesbaden: Reichert, 2000). Indo-Iranian Journal 45330—3.
- 2008. "Women's language in the Rig Veda?" In Indologica: T. Ya. Elizarenkova Memorial Volume. Book 1, hrsg. L. Kulikov und M. Rusanov, 153–65. Moscow: Russian State University for the Humanities.
- ——. 2009. "Where are all the optatives? Modal patterns in Vedic." In East and West: Papers in Indo-European Studies, hrsg. Kazultiko Yoshida und Brent Vinc, 27-45. Bremen: Hempen.
- Kloekhorst, Alwin. 2008. Etymological Dictionary of the Hittite Inherited Lexicon. Leiden: Brill.
- Kölligan, Daniel. 2004. Wenn zwei dasselbe tun: Iterativa und Kausativa. In Indogermanitith - Germanitik - Linguistik. Akten der Arbeitstagung der Indogermanischen Gesellschaft, Jena 18.-20.09.2002, hrsg. Maria Kozianka, Rosemarie Lithr und Susanne Zeiffelder, 193-247. Hamburg: Kovae.
- Kulikov, Leonid. 2008. "The Vedic type patáyati revisited: Semantic oppositions, paradigmatic relationships and historical connections." In Evidence and Counter-evidence. Essays in Honour of Frederik Kortlandt. Bd. 1, Balio-Slavic and Indo-European Lunguistics, hrsg. Alexander Lubotsky, Jos Schacken und Jeroen Wiedenhof, 323–42. Amsterdam: Rodopt.
- Kurylowicz, Jerzy. 1956. Eapophonie en indo-européen. Wrocław: Zaklad imienia Ossolinskich.
- --- . 1964. The Inflectional Categories of Indo-European. Heidelberg: Winter.
- Lazzeroni, Romano. 2009. "Causativi e transitivi indocuropei: fra comparazione e tipologia." Studi e Saggi Linguistici 47:7-23.
- Lubotsky, Alexander. 1989. The Vedic-áya-formations. Indo-Iranian Journal 32:89–113. Malzahn, Melanie. 2010. The Tocharian Verbal System. Leiden: Brill.
- ——. 2012. "Archaism and innovation in the Tocharian verbal system: The case of valency and the case for a conspiracy theory." In The Indo-European Verb: Proceedings of the Conference of the Society for Indo-European Studies, Los Angeles 13–15 September 2010, Inrg. H. Craig Meichert, 235–40. Wiesbaden: Reichert.
- Margulićs, Alfons. 1931. "Verbale Stammbildung und Verbaldrathese." Zeitschrift für vergleichende Sprachförschung 58:79–124.
- Meier-Brugger, Michael. 2010. Indogermanische Spruchwissenschaft. 9. Aufl. Berlin: Mouton de Gruyter.
- Meiser, Gerhard. 1993. "Zur Funktion des Nasalpräsens im Urindogermanischen." In Indogermanica et Italica Festschrift für Helmut Riv zum 65. Geburtstag, hrsg. Gerhard Meiser, 280–313. Innsbruck: Institut für Sprachwissenschaft der Universitat Innsbruck.

- Monteil, Pierre. 1992. Elementos de fondrua y morfología del latín. Traducción, notas suplementarias y actualización de la bibliografía de Concepción Fernández. Sevilla: Publicaciones de la Universidad de Sevilla, Manuales Universitarios.
- Pooth, Roland A. 2004. "Ablaut und autosegmentale Morphologie: Theorie der urindogermanischen Wurzelflexion." In Indogermanisile – Germaniste – Linguisité Alten der Arbeitstagung der Indogermanischen Gesellschaft, Jenn 18. –20.09.2002, hrsg. Maria Kozianka. Rosemarie Luhr und Susanne Zeilfelder. 401–71. Hamburg: Kovac
- Rasmussen, Jens Elmegård. 1989. Studien zur Morphophonemik der indogermanischen Grundsprache. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Redard, Georges. 1972. "Sur les prétendus causatifs-itératifs en -éw." In Mélanges de linguistique et de philologie grecques offerts à Pierre Chantraine, hrsg. Alfred Ernout, 183-0, Paris: Klincksteck.
- Reichelt, Hans. 1909. Awestisches Elementarbuch. Heidelberg: Winter.
- Risch, Ernst. 1974. Wortbildung der homerischen Sprache. 2. Aufl. Berlin: de Gruyter.
- Schwyzer, Eduard. 1933. Griechische Grammatik. Auf der Grundlage von Karl Brugmanns Griechischer Grammatik. Bd. 1, Allgemeiner Teil. Lautlehre. Wortbildung. Flexson. München: Beck.
- Solmsen, Felix. 1888. "Sigma in verbindung mit nasalen und liquiden im griechischen." Zeitschrift für vergleichende spruchforschung auf dem gebiete der undegermanischen spruchen 20;59-124, 320-38.
- Stang, Christian S. 1966. Vergleichende Grammatik der Baltischen Sprachen. Oslo: Universitetsforlaget.
- Szemerényi, Oswald. 1990. Einführung in die vergleichende Sprachwissenschaft. 4. Aufl. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Thieme, Paul. 1929. Das Plusquamperfektum im Veda. Göttingen: Vandenhoeck & Ruprecht.
- Tichy, Eva. 1976. "Gr. δειδέχατο und idg. *dékti, déktoi." Glotta 54:71-84.
- —. 1980. "Zum Kasusgebrauch bei Kausativa transitiver Verben." Die Sprache 26:1-18.
- —, 1993. "Transponierte Rollen und Ergänzungen beim vedischen Kausativ." In Indapermanica at Italica. Feistchrift für Hehmut Ruz zum 65. Geburtztag, hrsg. Gerhard Meiser, 436–60. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- —. 2004. "Vedisch timit." In Per appra ad asterisor. Studia Indogermanna in honorem Jens Elmogård Ramusca sexagenaru Idibus Martiis anno MMIV, hrsg. Adam Hyllested, Anders Richard Jorgensen, Jenny Helera Larsson und Thomas Olander, 66-71. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Tremblay, Xavier. 2006. "Ist die Aktivendung 3Pl a:ra in einigen ostiranischen Spra-

- chen innenranische Entwicklung oder indogermanisches Erbe?" Munchener Studien zur Sprachwissenschaft 62 (2002):259-87.
- 2012. "Zum Begriff 'Nartensystem'. Apophonica V." In Irminische und m-dagermanistiche Beiträge in memoriam Jochem Schmaller (1944–1994), hrsg. Velizar Sadovski und David Sufter, 419–44. Wien: Verlag der Osterreichischen Akademie der Wissenschaften.
- Tucker, Elizabeth Fawcett. 1990. The Creation of Morphological Regularity: Early Greek Verbs tn -έω, -όω, -όω, -όω and -ίω. Göttingen: Vandenhoeck & Ruprecht.
- Vine, Brent. 2012. "PIE mobile accent in Italic: Further evidence." In The Sound of Indo-European: Phonemics, Phonemics, and Morphophonemics, Irsg. Benedicte Nielsen Whitehead, Thomas Olander, Birgit Anette Olsen und Jens Elmegård Rasmussen, 545-75. Copenhagen: Museum Tusculanum.
- Wackernagel, Jacob. 1916. Spruchliche Untersuchungen zu Homer. Göttingen: Vandenhock & Ruprecht.
- Watkins, Calvert. 1971. "La famille indo-curopéenne de grec 6995: linguistique, poétique et mythologic." Bulletin de la Société de Linguistique de Paris 70:11-26 (= Watkins 1994: 520-335).
- 1994. Selected Writings. Hrsg. List Oliver. Bd. 2, Culture and Poetics. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Weiss, Michael. 2012. "Italo-Celtica: Linguistic and cultural points of contact between Italic and Celtic." In Proceedings of the 23rd Annual UCLA Indo-European Conference Los Angeles October 28th and 25th, 2011, brsg. Stephanic W. Jamison, H. Craig Melchert und Brent Vine. 131–73. Bremen: Hempen.

The Mīmāṃsā Influence on the Formation of the Bhagavadgītā

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r. There has been much debate over the years regarding the composition of the text of the Bhagasvalgitā. Leaving aside the important question of its incorporation within the epic story of the Mahāhahamaa, much of the discussion has concerned the degree to which the BhG is to be understood as a unified text with a coherent message or as an editorially composite pastiche of material from different sources. Recent analyses have tended to accept that the examt retx reflects a process of colitorial synthesis, while at the same time seeking to present the work as a whole as articulating an essentially coherent argument about the nature of the world, its relationship to God, and the place of human beings within it.¹

Yet the question of precisely how such unity of message was achieved on the back of what are sometimes widely divergent source segments has received surprisingly litted attention. Even if this or that proposal regarding the overall meaning conveyed by the text accurately reflects the intentions of an editor or editors seeking to harmonize the different source materials to promote their preferred cosmo-theological vision, on what criteria did they base the selection of this material, and what techniques did they use to integrate it?

Those who would argue for a greater compositional unity generally agree that a main aim of the Gittá was to reconcile conflicting concepts and practices adhered to by various groups within the wider community of those identifying themselves in one way or another with Brahminical traditions. Here, too, it may be asked whether its possible to define, with greater specificity than has hitherto been achieved, what the rhetorical strategies accomplishing this reconciliation of discordant ideas were, by whom they were developed, how they were deployed, and what they reveal about the structure of the Gittá as a whole.

Attempts to trace the influences upon the composition and/or redaction of the BhG generally focus on one or more of several traditions whose positions are to one degree

¹For a summary of the history of research into the *BiG*, see Malinar 2007 17–34, whose own work exemplifies attempts both to employ the methods of textual criticism and to offer a holistic reading of the text.

or another elaborated in the text. Thus, relationships have been drawn between the BbG and other portions of the Great Epic into which it is incorporated, as regards both the narrative and didactic portions; comparisons between certain of the teachings in the Gitt and the Särpkhya and Yoga traditions have been explored; inspiration from the cult of Vaundeva Repais is effected and connections to its devotional literature assumed; the importance of the Upaniads to the BbG has long been recognized, as have the intertextual and theological relationships with the carliest verse Upaniads, such as Katha and Spatishimant. Even the influence of the Vedic ritualist corpus has been identified. All of these traditions, and likely others, can be seen to have contributed to the generation of discrete parts of the text. Is there, though, any tradition to which credit can be given for accomplishing the work of integration and reconciliation mentioned above, whether it be of diverse sources or simply of conflicting ideas?

In this paper I will make the case that the project of harmonization for which the Gith is known was achieved by the implementation of a hermeneutic method borrowed directly from the ritual theory of the Minainsh. The key principle of this theory is that the principal or primary element (pmalhina) of a text is to be identified in its injunctions to action, while all other material is considered subsuliary or secondary to injunction.* When one reads the BhG in such a way, the injunctive nature of the text becomes its organizing principle and, I will argue, the key to its unity.

a. It may at first seem absurd to propose that the BbG owes a fundamental debt to the Mimāmsakas, given the contempt sometimes expressed therein towards traditional ritualism. However, my goal is not, like that of Kunhan Raja, to prove that "the Gibā truly reflects the view of Mimāmsaka" or to assert that the work is compatible with the broader theological and ethical doctrines of the Mimāmsakas. I propose merely that the producers of the BbG utilized a key principle of Mimāmsa interpretational method in order to organize, hierarchize, and ultimately harmonize a set of conflicting deas and practices that otherwise threaened to contradict one other and create in the minds of the community the same sort of doubt and paralysis exhibited by Arjuna at the beginning of the text. This uniform application of Mimāmsā method throughout the entirety of the BbG and upon all of its vaned contents is, in my view, what has created a uniform message despite the diversity of the text construent elements.

According to Jaimini's Mimansa Sutras, elements involved in the performance of

sacrifice are identified as "subsidiary" (sea) when they exist or are performed "for the sake of something else.76 According to certain ritualists of Jamini's day, such elements were limited to the substances used in the sacrifice (dravya), the auxiliaries (guna), and those acts that serve to purify or prepare other elements that will be employed within the sacrifice (samskāra).7 All of these exist solely for the purpose of carrying out the rite (kriyartha) and are thus secondary and not primary. 8 Jaimini himself includes among the subsidiaries the rituals (karmāni), their results (phala), and the agent who performs them (purusa).9 As Sabara explains this position, the sole purpose of the ritual is to produce the result, which in turn exists not for its own sake but for the sake of the person who performs the ritual. In certain circumstances, a person can appear as subsidiary, as when he is used as a merc instrument to measure the appropriate height of the sacrificial post.10 In other cases, too, the division is contextual, so that it can sometimes be that a substance is primary in relation to an action when that action is only undertaken to prepare the substance for use in the ritual." However, the ultimate purpose of ritual performance is the production of the final aparva, the 'unprecedented' effect (kārya) of the ritual undertaken, which will in due time cause the final result (phala) of the sacrifice enjoyed by the sacrificer.13 All substances, actions, and agents within the ritual are coordinated to the production of this final aparva, and it is through the coordination to this single end that the diverse subsidiary elements constitute a unity.13 The end itself is what is primary, i.e. the principal (pradhāna). It is what we might call the meaning or purpose of the sum total of actions undertaken. In contrast to Sabara, the Niyogavadins, led by Prabhakara, are little concerned

In contrast to Sabara, the Niyogavadins, led by Prabhakara, are little concerned with establishing the continuity between ritual action and supermundane result.¹⁴ Nevertheless, their analysis, too, is based upon clearly delineating what is primary and what is subsidiary.¹⁹

The application of the categories of primary and subsidiary is not limited to the analysis of ritual causality. It is also essential to the Mimämsä understanding of language. For example, the meaning of any sentence depends upon the precise relation of all other words to the verb, which thus constitutes the principal element of meaning. Prabhäkara and his followers go so far as to assert that individual words can express no meaning outside their specific relation to a verb in a sentence (anvitabhahanavada).

²Malinar 2007'66-7, Oberlies 1988, Haas 1922.

[&]quot;To my knowledge the importance of Mimäimä theory to the editorial composition of the BIG has not thus far been explored, though Brockington (1998 270 n. 89) notes the text's "sue of mimaimia vocabulary." There is not space in the current paper to discuss the question of to what extent and in what form Mimäimsä ideas had been systematized by the time of the reduction of the BIG.

^{*}As Ketth (1921.87) wrote, "The discrimination between what is principal and what is subsidiary (1888) occupies the greater part of the attention of the Mimämsä."

¹Kunhan Raja 1946 22

^{*}IMS 3.1.2. sesah panárthatvát

[&]quot;Such is the view of Badari, according to JMS 3.1.3, drayvagunasamskaresu badarib

^{*}For details on how these elements are secondary to the rite, see Sabara's Bhiton on JMS 3.1.3.

⁹JMS 3.1.4-6: 1.c. karmány api jaiminih phalárthatvat (4), phalam ca parisárthatvát (5), purusai ca karmárthatvát (6),

¹⁰ See Sabara's Bloom on IMS 1.1.6.

[&]quot;See JMS 2.1.8 and 3 1.6, with Sabara's Bhaya, and Jha 1911:175-80.

¹² Jha 1911-157-71.

¹³On Šabara's doctrine of apairm and Kumānia's subsequent development of it see Clooney 1990 224-45.

[&]quot;See Clooney 1990:245-53.

[&]quot;For a comprehensive treatment of the Prabhakara School's analysis of the Vedic injunctions and their fulfillment, see Freschi 2012;19–135.

but even Kumārila and other exponents of the abbimtainnesse view, who accept that other parts of speech, such as nouns, denote their meanings in and of themselves, accept that these are coordinated with—and thus subordinate to—the verb in expressing the meaning of a sentence. Thus, according to both Mimānsā theories, the unity of sentence meaning is presented as the contribution of a diverse set of subsidiaries to the primary expression of action.

Similarly, in the case of Vedte language, what is primary versus what is subsidiary is ultimately determined by the relationship of all linguistic elements to a particular verbal injunction. Sometimes, however, ambiguities arise in the interpretation of the injunctive texts, and it is not possible to clearly establish that to which something is meant to be auxiliary in the enactment of the rite. Such lack of certainty was sen as highly dangerous to the successful performance of the ritual, for the wrong application of any part of the ritual apparatus would mean the failure of the performance. One of the defining projects of the Miniaryis theorists, therefore, was to develop a method of interpretation to resolve such ambiguities. The nuanced hermeneutic system they produced identified six means for determining what is subsidiary and what is primary in any given Vedic expression, with 'direct statement' ('swist') having the greatest force, being equivalent to a Vedic injunction, and the others having progressively weaker authority. '8

It is evident from the fact that the Miniamysaks felt it necessary to elaborate such a system of interpretation that they appreciated how a single text can be understood in multiple ways. That their own hermeneutics focused primarily on establishing the criteria for ascertaining dependence and priority attests that, for them, the main way in which the same expression could be understood in different ways was through shifting the position of its component elements within a hierarchical semantic structure. The sense of a passage, or indeed of an entire text, could be altered depending upon whether the meaning-content of one particular element was subordinate or dominant to another.

The consequences of this may be neatly illustrated by the alternative reading the Mimāṇsakas give to the *Upanuadi*." According to Vediantin exegetes, the primary content (viaya) of the *Upanuadi* is a "perfectly established entity" (parinishta vasav), the eternal brahman, identifiable as the true form of being and the essence of reality. As revelatory scripture, what the *Upaniada* convey is knowledge of what ruryly is, as it is. They tell us about the absolute entity, being, or reality—permana—in a way that is fundamentally descriptive. Whatever other content the *Upanusads* may present, it is all subsidiary to and in the service of the principal meaning, which is *brahman*.

The Mīmāṃsakas were bound to object to such a reading of Vedus erupture. To them, mere description of realisty, even if it could reveal a truth as yet unknown, holds no meaning and is utterly pointless unless it contributes to an understanding of what a human being is meant to do. In order to be meaningful, all passages in the Veda must contribute somehow to an injunction impelling the person addressed to act. Propositional statements that do not cripion action must be construed as claborations of the various elements necessary for the completion of an enjoined action, such as the means, the procedures, the agent, or the expected result. Such statements are considered subsidiary to the injunction and urterly pointless without it. To give a contemporary example, to tell someone that "the cup is hot" outside any context of action involving the object would be received as a pointless and irrelevant comment, mere useless information. On the other hand, as subordinate to the nijunction "Don't touch that cup!", the description of the object as "hot" assumes purpose and import.

Similarly, Mīmārnā exegeres read the Upanişadic statements regarding brubman as subsidiary to Vedic injunctions. Some Mīmārnsakas understood them to be subordinate to the ritual injunctions of the barma bingā by virtue of the fact that they shed light on aspects necessary to the rites, such as the nature of the agent performing them or the delite for whom they were carried out. ⁸Alternatively, Mimārnsakas indentied specific injunctive statements within the Upanisads themselves and construed them as upātanaviābi or pratapartirudāts, injunctions to meditate upon and come to know the true nature of bermāman. According to this approach,

Because the primary import (of the *Upansads*) is injunction, just as the rites of the Agnihotra etc. are enjoined for one who desires heaven, so knowledge of *brahman* is enjoined for one who desires immortality.¹⁰

Despite the difference in detail, both of these Mimāmsā approaches agree that the primary content of the Upaniands, just as of the rest of the Veda, is an injunction to perform an action of some kind and that brahman, as the object of that action, is a mere subsidiary.

In brief, the Mimänsä system employs the related principles of primary and subsidiary for a number of discrete but interconnected purposes. With reference to the ultimate goal (artha) of action, the concepts facilitate the organization of contributory acts and materials into a causal hierarchy delineating the specific role of each factor in the chain of operations leading to accomplishment of the goal. With reference to

¹⁶ For details see Jha 1911 187-96, Keith 1921 89-91

[&]quot;The most detailed elaborations of the Ministinas approaches to reading the Upanisada are presented as pursupasha pountion in Vedinium tources, particularly in the Ningan Kapida of Mandatian Misria Simbonatada's and in Surevara's Simbonadas Variada Commentation on the Bindons Sirmas, such as Sankara, Balekkara, and Ramanuja, argue against such views in connection to silma 1.1.4. Sankara's sunmany representation of the Ministraly Sounces in spursularity concess, and so for convenience. I have used it so ultituates the position

[&]quot;BSSBis on 1.1.3: harmäpekutakarrydentädurarryappnikaianena krystradinisuutram vodantanam "The Upanisada are subseduary to sugunctions to ritual action as they illuminate the nature of the agents and deities etc. that depend upon the ritual action."

^{**} BSSBb on 1.1.4: sats ca vidluparatve yathå svargådikåmasyägnshoträdtsådhanam vidhiyate evam amǫtatvakämasya brahmagñanam vidluyate.

meaning (also artha), it provides the semantic core of linguistic expression in the form of the verb governing the function of all other parts of speech in the sentence. Furthermore, it constitutes the key for correctly interpreting the meaning of more complex textual expressions by identifying the primary content to which all other elements of a text are subordinate and without which they are irrelevant. In all of these spheres of application, the common denominator is the inseparable connection of meaning and action.

3. In turning to the question of how this Mimamsa framework illuminates the Bhagavadgitā, we may begin with the apparently trivial point that the central topic of this epic dialogue is action (karma). Arjuna's basic dilemma is whether it is better to act out one's duty and obtain negative consequences or refrain from acting out one's duty and avoid such consequences.30 He appeals to Kṛṣṇa to instruct him as to which of these two options is better (freyer). Kṛṣṇa's response is immediate and unequivocal: Arjuna must act.21 The remainder of the eighteen books is devoted to Kṛṣṇa's elaboration of why he must act and how he must act, and Arjuna's final words in the BhG are, "I shall do as you say,"23 From the point of view of the plot of the Mahābhārata, all that the BhG achieves is Arjuna's acceptance to enter the fray, the final response to Kṛṣṇa's injunction, "Fight!" Thus, the context of the whole dialogue suggests that the principal purpose of Kṛṣṇa's instruction is injunctive and that the other details of his teaching are offered in service of this command.

That the doctrinal parts of the text are in service to Kṛṣṇa's injunctions is made logically explicit at numerous points in the text where Krsna's teachings are presented as reasons for action. For example, after elaborating for Arjuna his initial doctrine of the imperishable dehin, whereby no one really comes into existence or passes away and therefore no grief over death is ever warranted.23 Krsna concludes, "Therefore, fight!" (BhG 2.18d: tasmād yudhyasva). The causal adverb tasmāt makes plain that the whole preceding speech, with all of its philosophical and religious content, is presented as justification for, and thus in service to, the injunction to act. This explicit subordination of the doctrinal content of the text to a primary imperative is found in a significant number of passages (BbG 2.37cd tasmad uttistha ... yuddhaya; 2.382 tato yuddhaya yuiyasva; 2.50cd tasmād yogāya yujyasva; 3.19ab tasmād . . . kāryam karma samācara; 8.7ab tasmāt...mām anusmara yudhya ca) and is implied in still others where Kṛṣṇa peppers his doctrines with imperatives to act, despite the omission of the tell-tale logical connector 'therefore'

In the context of Mimansa hermeneutics, passages subordinated in this way to an

injunction would be termed "object-discourse" (arthavada) and judged meaningful only in relation to that injunction. As Jha wrote, "so far as the Arthavada is found to be capable of being construed along with injunctions, it is regarded as authoritative; specially as it serves the distinctly useful purpose of helping the injunction in its persuasive or prohibitive function."34

On the basis of this centrality of injunction to Krsna's address to Ariuna. I propose that the principle of the primacy of injunction in relation to all other aspects of the text directly informed the design of the BbG and suggested the method in accordance with which such a diverse set of teachings was to be organized and harmonized into a coherent and unified message.

From the very beginning of the dialogue the unspoken premises of Arjuna's difemma hint at a play on the Mimamsa analysis of action. In his speech at BbG 1.31-7. Ariuna declares that he sees no benefit in the action of battle he is being enjoined to undertake35 because it will not accomplish a desired result. Victory would lead to sovereign power, enjoyments, and pleasures, but he does not want these for his own sake. Such rewards are only desirable if obtained for the sake of the very kin whom he must slaughter to obtain them. 26 Not only does the phraseology expressing the beneficiary of the results of action, yesām artha-, seem a play upon the Mīmāmsā term purusārtha-, but the assertion that action is futile in regard to producing a positive result appears to be a direct challenge to the Mīmāmsakas; much of their ingenuity was directed at safeguarding against futility of action.

It is not only because he judges the connection between the enjoined action and the desired result to be impossible that Arjuna despairs. He also considers the actual result accomplished by the action to be a great evil, which he identifies specifically as adharma (BhG 1.38-45). Within the context of Mīmāmsā, of course, adharma is precisely that which one is enjoined not to do, the object of prohibition. Thus, if we read Arjuna's statements with an eye to Mīmāmsaka technical terminology, we may say that he is being enjoined to perform an action that will fail to produce any positive result and will inevitably produce a negative result that would properly be the object of a prohibition. It is under these circumstances that Arjuna wonders whether it would be more propitious to abstain from action entirely. 47 His logic is obvious: if he does not engage in action, he can neither fail nor produce a negative result.

³⁰ See BhG 1.29-46 and 2.4-8.

²¹BhG 3 8ab: neyatam kuru karma tram karma ĝuiyo hy altarmanal; "Perform necessary action, for action is better than inaction."

²³ BhG 18. 73d: karaye pacanam taya

^{23.}BhG 2.11-8.

²⁶ Jha 1911:122. For details of the classification of arthonidas and their function and authority, see Jha 1911:115-6 and 121-5. On Jaimini's defense of the authority of the arthundus through their subordination to insunctions, see IMS 1.2.7 and Göhler 2011:115-6.

^{*}BbG 1.31cd: na as śreyo 'nupaśydnu hatrā svayanam āhave "I see no benefit to follow in slaying my kin in

²⁶ BbG 1.33; vesäm arthe kätikstam no rärvam bhogāh sukhāni ca, ta ime 'vastlistā yuddhe prānāmi traktrā dhanan or "They, upon whose account we desire dominion, amenities, and pleasures, are arrayed here in battle, casting aside lives and riches."

²⁷BbG 1.46 yadı müm apratiküram alastram (astrapünayah, dhürtarüstrü rane hanyus tan me ksemataram bhaves "It would be greater welfare for me if the sons of Dhytarastra, swords in hand, should in battle slay me, unresisting and defenseless."

In order to persuade his comrade to act, Kṛṣṇa will need to address Arjuna's analysis of ethical causality and present an alternative to it. In setting out to do so, Krsna begins with a critique of the traditional Vedic ritualist perspective on the matter, the foundation of the Mimamsa standpoint.28 These proponents of the doctrines of the Veda (vedavādaratāh) are motivated by desire (kāmatmānah) and have as their main object the attainment of heaven (svargaparab). Their minds are stolen from them by the flowery speech of the Vedas, which actually offers only the consequences of action (karma) in the form of rebirth, replete as its content is with a variety of ritual activities (kriyā) directed towards obtaining pleasures and power (bhogaiśvarya). It is to these fruits that they are attached. Motivated by the fruits of action (phalahetavah), such people are pitiful. Krsna does not elaborate on why they are deserving of pity because the reasons have already been emotively represented by Arjuna in his detailed presentation of his own predicament: actions do not always lead to the desired result; they may fail or produce the opposite of what one wishes for. Thus, people who put their hopes and expectations on the fruits of action become miserable and hence pittful. Rather than acting for the sake of results, declares Krsna, one must remain indifferent to them. One must put aside both positive and negative results (sukrtaduskrte), the fruits produced by action (karmajam...phalam), and respond with equanimity to both success and failure (siddh) and asiddh).

As Kunhan Raja suggested in his own treatment of the relationshup between the BbG and Mimänpis, his rejection of the motivating factor of the finits of action can well be seen in the context of the internecine debate between Mimänpaskas (represented by the Prabhäkara school and the Kumärila school in the extant literature) according to which some see the injunctive power of the Veda to rest purely in its communication of the duty to eat, while others see the fruits as a motivating factor. In emphasizing the obligation to act without regard to the fruit, the BbG may be seen to endorse the former view, and Kṛṣṇa seems to explicitly acknowledge the debt to Mimānpis analysis when he employs the School's technical terminology to tell Ārjuna, "Your mandare" [adhikāra] is for action alone, never for its fruits. In the same time, the two-fold instruction he then issues, "Be neither motivated by the fruits of action nor attached to inaction," In demonstrates that this speech of Kṛṣṇa's is not merely a reflection of an inter-Mimānpis disagreement but has been designed specifically in response to Arjuna's own dilemma regarding the problem of action and thus underlines the coherence of the text's thematics.

There is something leke about Kṛṣṇañ speech at BhG 2-at-ṛṣ that reveals its indebtchness to Mumanisa theorization in the formulation of its original message, something more subtle, but equally crucial to the foundation of what I will hazard to call
the BhG's "system." I mentioned above that the Mimänisä theorization of ritual action relied upon the idea that the status of every element within a particular rite can
be determined by defining how it functions as a contributory factor to the single aim
of the rite, accounting for the resolution of the diverse factors in an ultimate unity,
Kṛṣṇa, however, denies that the Veda offers any unity of purpose. Instead he refers to
"the endless and manifold ways of understanding [buddhipady] that belongs to those
without definitive resolution [psynsashys-1,]-pi i.e. to the adherents of the Veda whose
ends are many. "This, of course, must be read in relation to the closely connected
verse regarding the "variety of ritual activities" that the Veda contains, all directed at
different goals. Rejecting the ritualists' claim, Kṛṣṇa sees no unity at all to the structure
of Vedic knowledge, nor any withintate aim or final resolution to the rituals it enjoins.

For Kṛṣṇa, only "understanding characterized by definitive resolution is one" (pynnsatylatmakā buldhih; ekā). The singular buddhi is the one introduced a couple of verses previously, at BhG 2.39, where it is associated with yaga, and the one referred to in the compound buddhiyaga further along in the passage (BhG 2.49). In the immediate context Kṛṣṇa defines yaga twice, first as 'equanimity' (atmatum) in response to success and failure (BhG 2.43) and then as 'skillkliness in actions' (barmasu bansalam, BhG 2.50), by which he means, like the Buddha, the disciplined maintenance of the correct mental attitude in one's engagement with the world. He then concludes the apsage by relling Arjuna, "You will attain yaga when your understanding (buddhh), at odds with the content of Vedic revelation (brantwpratpanna), stands motionless, fixed in concentration (samadhi)." Whatever further nuances the term yaga may hold, it is clear that here the word refers to a state of mental control whereby one performs all action without regard to the many and varied outcomes to which different actions may lead. As a result, nore's understanding of or mental artitude towards action is not subject to constant change depending upon the ends in view: it is 'one'.

Kṛṣṇa tells Arjuna that such singular understanding of action, obtained "in concentration" (samādhi) and "characterized by definitive resolution," "is not enjoined"

²⁸ The passage in question is BhG 2.41-53

³⁰See Halbfass 1991 68-9 Mandana Miśra's treatise, Vidhinivelus, details the arguments on both sides and defends the latter view of istasādinanatā. On Mandana's treatment, see Frauwallner 1938 and Natarajan 1995.

[&]quot;Other aspects of the term adulature are captured by alternative translations, e.g. 'entitlement', 'nghi-ful tide', 'autorization', 'obligation', 'appointment', 'tighghishi,', 'alughfaction', An excitent outline of the inflection of the term's meaning in different systems of Purva- and Ultrar-Minnainsa is given in Halbfaco.

[&]quot;See van Buitenen's note to this passage in his translation (van Buitenen 1981 163 n. 13) Hallbfass (1991.69), too, recognized the relevance to this Gitá passage of the Mimámsá controversy regarding the interpretation of adinharia and its relation to Vedic innunction.

¹³ BhG 2 47cd ma karmaphalahetur bhur mā te sango 'stv akarmanı.

[&]quot;The full verse (BBG 3.4) reals: wassasjettmenk buildine riche kursmandama, hehicidelse by assented or buildings by sunsasymane. Renderings differ considerably, e.g. Edgerton 1944. "The mental attractive whose nature is resolvation is but one in this world, son of Knair, For many-branched and endless are the mental attractes of the irresolute", van Bustnern 1981. "This one spirat is defined here as singleness of purpose, son of Knair, whereas the spirats of those who are not purposeful are counties and many-branches." as one of the county of the Knairs, this might here is firm in nature, and singular, but the insights of those who waver accordiess, with many branches."

¹⁴ Again, van Buitenen's note is insightful here (van Buitenen 1981-162 n. 7).

[&]quot;BbG 2.52; srutspopratipanna te yada sthasyati niscala, samadhar acala buddhis tada yogam avapoyasi.

upon the Vedic ritualists "whose minds are led astray" by the Veda and "who are attached to pleasures and power," be I'm implication, of course, is that this understanding it enjoined for those who practice buddhrygan. This utilization of the concept of injunction suggests a conscious adaptation of the categories of ritualist thought in the fashioning of this doctrine of action. But what, precisely, is this primary injunction?

When Arjuna asks about how one whose understanding has been fixed in concentration should conduct oneself, Kṛṣṇa replies in injunctive mode: "Restraining all [sense-faculties] he should sit, controlled, intent on me." It is the first adumbration that it is Kṛṣṇa, as God, who constitutes the primary purpose of all action as well as the primary content and meaning of the Bhagavadgriai. Crucially, too, it is the first formulation of the injunction to practice Kṛṣṇa-focused yaga, developed in greatest detail at BbG 6.10-5 and BbG 8.12-6 and related to the performance of action most succinctly in the final book: "Mentally relinquishing (the fruits of) all actions in me, intent upon me, relying upon buddhyoga, have me in mind constantly!" ⁸⁸

It is in the iterations of this primary injunction, I propose, that the organizing principle of the text of the BhG may be found. It is thus to be compared to the pratipattividhis which, as we saw above, were identified as the primary content of the Upanisads according to the Prabhakara Mimamsakas. In similar fashion, the metaphysical, theological, and ethical doctrines of the text are presented as elaborations of an injunction to meditate upon Kṛṣṇa: they clarify the means, the method, and the reasons for the injunction, fulfilling what in the technical vocabulary of Mīmāṃsā is called ākānksā 'syntactic expectancy'-the answers to the questions "who, what, when, where, how and why?"39 For example, the epiphany of Krsna in chapter 13 is the culmination of the teaching begun at BhG 7.1-3 about how to practice years with mind intent upon him: the elaborate description of God facilitates the enjoined meditation upon him by revealing the details of the content of that meditation. Similarly, the ontological doctrines regarding the relationship of the cosmos to Kṛṣṇa and the ethical doctrines regarding the derivation of all action from the workings of Krsna's praketi are presented as arthavadas subsidiary to the injunction to perform all action as an askesis while meditating upon Krsna as the only end.

Furthermore, these doctrines demonstrate that the ritual elements of the sacrificial ground and the sacrificer himself have been displaced by Kṛṣṇa in the execution of the primary injunction: the body of Kṛṣṇa is the field of action, and all action is to be performed for Kṛṣṇa alone, as it is ultimately the product of his agency. The pursuitriba of the tritualists has become 'Kṛṣṇārtha'.

Finally, the Veda has been displaced as the authority for the primary injunction:

attain to me. "40 Throughout the BbG, he conveys this bequest repeatedly with the force of injunction, on the model of the Vedic injunction for sacrifice.41

4. Regardless of one's view of the compositional homogeneity of the BbG, the identification of the BbG is the identification of the BbG.

the authority is now the Lord himself. As Kṛṣṇa says, it is he who bestows yoga as a means for his devotees to attain him: "I grant buddbyoga, by means of which they

4. Regardless of one's view of the compositional homogeneity of the BBG, the identification of the injunction as the notional core of the text would account for its undeniable unity of theme. The principle that every thought, word, and deed is subordinated to and enacted for Kṛṇa permits the harmonization and integration of apparently contradictory elements into a coherent, all-embracing vision. In Mimārpaš terms, karma, jīñāna and yaga, yajīña and samynda, tapas, bhakri, and upātama are subsidiary to, directed towards, and serve the purpose of Kṛṇa, with the principle unifying them all as the true object and goal of each as well as their ultimate cause. Just as in ritual one does not lay claim to the kramarthas, the intermediary fruits, but accepts that they contribute to the final goal of the sacrifice that will accrue to the sacrifices, so too should one not lay claim to the diverse fruits of the myriad endeavors or modes of living in which one may engage but should see them all as merely contributory to the grand sacrifice of the Lord's creation.

For those who emphasize the compositional heterogeneity of the text—who view it as having been fashioned over time from a diverse collection of originally distinct and often mutually conflicting discourses—the identification of the methodological affinities between the redactor(s) of the text and their Mimänsaka predecessors produces the key to understanding how they approached their task. In order to reconcile the plethora of discordant doctrines valued by various groups among the adherents of the broader Brahminical traditions, these doctrines needed to be made subsidiary to a primary idea to which they could all be seen to contribute in their own particular ways. A ready-made paradigm for such an undertaking was recognized in the hermeneutic method of Mimänsä, whereby all aspects of a text are to be subordinated to an infunction to act.⁴⁴

Abbreviations

BhG = Bhagavadgītā BSSbh = Brahma-sūtra-Śankara-bhāsya [MS - Jaimini-Mīmāmsā-sūtras

⁴⁰ BhG 10.10cd: dadāms buddhwaam tam yena mam upayānts te.

[&]quot;This is not to say, of course, that the riquiection functions in precisely the same way in the BMC at it does among Publishera Mismanskin. In the BMC, the compelling force is exercised not by the injunction alone but through the very fisher of nature (BMC is 10), and Kygas can speak as though Arjuns will has a choice to make, deepine all his imprecisions (BMC is 10). False given from indirect the wisdom that I have declared... do as you please!") It is the function of the unjunction as the engineering principle of the text that I am behildering.

⁴² A detailed review of the textual examples of how this was carried out will left for a future publication.

¹⁶BhG 2.44: bhogastvaryaprasaktanam tayapahrtacetasam, vyarasaktmikä budahih samädhau na vulhiyate
*Understanding characterized by definitive resolution in concentration is not enjoined for those attached

to pleasures and power, whose minds are led astray by that [Vedic speech]."

"BiG 2.61 this survius survius automate mateurals

¹⁸ BiG 18 57: cetasā sarvakarmani mayi samnyasya matparah, buddhyogam upāšritya maecitah satatam bhaya.
¹⁰ See Bilimoria 1981

References

Bilimoria, Purushottama. 1981. "Akānkṣā: 'Expectancy' in sentential comprehension an advasta critique." Journal of Induan Philosophy 9:85–100.

Brockington, John. 1998. The Sanskrit Epics. Leiden: Brill.

Clooney, Francis X. 1990. Thinking Ritually: Rediscovering the Pūrva Mīmāmsa of Jai-mini. Vienna: Publications of the De Nobili Research Library.

Edgerton, Franklin. 1944. The Bhagawad Gitā. Cambridge, MA: Harvard University Press.

Frauwallner, Ernst. 1938. "Bhāvanā und Vidhiḥ bei Maṇḍanamiśra." Wiener Zeitschrift für die Kunde des Morgenlandes 45;212–52.

Freschi, Elsa. 2012. Duty, Language and Exegesis in Prābhākara Mīmāmsā. Leiden: Brill.

Gohler, Lars. 2011. Reflexion und Ritual in der Pürvamimämsä. Wiesbaden: Harrassowitz.

Haas, G. C. O. 1922. Recurrent and Parallel Passages in the Principal Upanisads and the Bhagavadgitā with References to Other Sanskrit Texts. Boston: Harvard University Press.

Halbfass, Wilhelm. 1991. Tradition and Reflection: Explorations in Indian Thought. Albany: State University of New York Press.

Jha, Ganganath. 1911. The Prabhakara School of Mimāmsā. Allahabad.

Keith, A. Berriedale. 1921. The Karma-Mimāmsā. London: Oxford University Press. Kunhan Raja, Chitenjoor. 1946. "Bhagavadgītā and the Mīmāṃsā." Adyar Library

Bulletin 10:9-22.

Malinar, Angelika. 2007. The Bhagavadgītā: Doctrines and Contexts. Cambridge, UK:

Cambridge University Press.
Natarajan, Kanchana. 1995. The Vidhi Viveka of Mandana Miśra: Understanding Vedic Iniuncion. Delhi: Motilal.

Oberlies, Thomas. 1988. "Die Śvetāśvatara-Upanişad: Eine Studie ihrer Gotteslehre."
Wiener Zeitschrift für die Kunde Sudasiens 22:35-62.

Patton, Laurie L. 2008. The Bhagavad Gita. London: Penguin.

van Buitenen, J. A. B. 1981. The Bhagavadgītā in the Mahābhārata. Chicago: University of Chicago Press.

Ancient Greek φείδομαι

IEREMY RAU

The verb φείδομαι Hom. + (aor. φείσασθαι Hom. +, πεφιδέσθαι 'spare (an adversary)' Hom.+), which belongs to the PIE root *b'eid- 'split', has two basic meanings in Ancient Greek, both pairing with a genitive object. The first, and better attested, is 'spare, be thrifty with (something)', e.g. Hom. II. 5.202 "ππων φειδόμενος "sparing the horses" (: @eidenmos PN Hom. +), Hes. Op. 604 un peideo o'rou "Don't be sparing of the grain," Tvrt. 10.14 θνήισκωμεν ψυχέων μηκέτι φειδόμενοι "Let us perish, not being sparing of our souls." This also occurs in the absolute use 'be sparing, thrifty' (Thgn, +) and is frequent in the sense 'spare someone/something in war' (Hom. +). This is the meaning that appears in all nominal derivatives of the verb, cf. φeιδώ, -οῦς f. '(act of) sparing, thrift' Hom. +, φειδωλή f. 'sparing, grudging use' Hom. +, φειδωλός 'sparing, thrifty, avaricious' Hom. +, aderbéwe 'prodigiously, unsparingly' Alc. +, etc. The second meaning, which is rare and excluded from nominal forms, is 'avoid, abstain (from something)', e.g. Pi. N. 9.20 οὐδὲ Κρονίων ... στείχειν ἐπώτρυν' ἀλλὰ φείσασθαι κελεύθου "The son of Cronus...urged (them) not to go, but to abstain from their journey," Χ. CVF. 5.5.18 ἐν τούτακ κατενόπσάς πού με ἢ πόνου ἀποστάντα ἢ τινος κινδύνου φεισάμενον: "Did you then ever see me shirking toil or avoiding danger?"

Although there is considerable confusion in the literature about how to account for these meanings and bring them in line with the root erymology, 'the semantic history of this verb is quite straightforward. Both meanings can easily be explained as specializations of an oppositional middle made to an active transitive verb meaning 'splic' (bzw. 'separare'). The sense 'spare, be thrifty with' derives from a semantically and syntactically specialized use of an oppositional middle in "self-benefative" function plus partitive genitive, viz. 'split/separate some of x off for oneself/one's benefit' > 'save, spare (some of) x' > 'spare, be thrifty with x; spare someone'. As a parallel for the basic starting point, cf. Gk. ampripayopat 'cut off for one's own benefit/use' as at DGEEP 83.35 (Argos, sth. c. BoB) pueb googs contraguerative pedartopsys pueb' af plastaw advantable. "Let neither party cut off for their own benefit/use a portion of the land nor appropriate for themselves all of it." The second meaning, 'swid, abstain from something', if not simply a development of the first, falls out transparently from a

^{&#}x27;See Frisk 1955-72 s.v. and Beekes 2010 s.v. Pokorny (1959 s.v. bhead-) seems to assume both meanings are original, as here. For Chantraine 1999 s.v., see the next note.

reflexive middle plus ablative of separation: 'split/separate oneself from x' > 'abstain from, avoid x.'2

The full-grade thematic present \$\phi \text{lightaps}(< \frac{n}{b} \text{lightaps}(-)\$ has an exact match in Germanic (: Go. bettan 'bite', etc.) and a likely correspondent in Old Khotanese act. bites bindi 'pierce' (< \frac{n}{b} \text{lightaps}(< \frac{n}{b} \text{lightaps}(-) at laso parse with a nasal infix present (Ved. binditi' split' [bitdyate' split apart/in two pieces'], Lat. findo, -ere' split; [mid.] burst'), a root aorist (e.g. Ved. dibitd). The pairing of a full-grade thematic present with a nasal-infix present closely resembles a pattern that I have outlined among property concept-denoting roots that participate in the Caland system. Here we regularly find an intransitive full-grade thematic present, usually middle but also sometimes active, pairing with a transitive nasal-infix or causative present that serves as its corresponding causative formation; cf. e.g.-'\text{lightaps}().

		NASAL-INFIX
ROOT	THEMATIC PRESENT	PRESENT
	(INTRANSITIVE)	(TRANSITIVE)
*Bouh, - 'speed'	*Bish,e/o- > Ved. jurate 'speed'	"funéh,-/funh,-' > Ved. junási 'make speed'
*b ₁ aia ^b . 'light up' (= *b ₂ eia ^b - LIV ^a)	*h.áyá*e/o- > Ved. édhats 'thrive', Gk. aïðω 'burn, blaze' Pı. S. (\rightarrow aïðoµas 'td.' $Hom.+$, aïðω 'light up, kindle' $Hdt. A.+$)	*h.inéd*-/h.ind*-' > Ved. indh 'light up'
* krejh, - 'be/become excellent, distinguished'	*kréth.e/o- > Gk. κρέων, κρείων 'ruler; ruling'	*krinth/krinh' >> Ved. srindti 'make excellent'
keub- 'be/become beautiful'	*kéyb*e/o- > Ved. śóbhate 'appear beautiful' (: 3rd sg. śóbhe 'td.' RV I 120 5)	*kunéb*-/kunb*-' > sumbisáti 'make beautiful; decorate' (: Ved. [AVP] sobháyatí 'id.')
*h _t reya ^h - 'bc/bccome red'	"b ₁ réμαθε/ο- > Gk. ἐρεύθω 'be/become red' B. Hp. (→ ἐρεύθωαι 'id.' Sapph. +, ἐρεύθω 'make red' Hom. +), → ON 1766a 'make red', etc.	*hrunéd*-/hrund*-' > OIr. -rund 'redden'

^{*}Chaintrane (1990 s.v.) argues that the outpul meaning was 'teparate onceil from a' and that this developed into 'spare, preserve a'. This approach has the Greek distributional facts against it, and would require an unnavarial semantic development. A simpler analysis would be to assume that the original meaning was 'spare' and that in usages like X. Op; 5,518 cred above the sense 'be sparing of, thirtfy with' was reanalyzed as' 'awod, abstant from' and then marginally extended.

*peub,- 'be/become pure'	*péuh_e/o- > Ved pávate 'flow pure; purify oneself'	*punéh _z -/punh _z -' > Ved. punáts 'pursíy' (. Ved [AVP] paváyats 'td.', [YV] paváyats, OHG fouwen, fewen 'strain')
*med-'be/become full, satiated'	*mdde/o- > Ved. mddat: 'delight oneself, get drunk', YAv. maða ^{-Je} 'get drunk'	*mynéd-/mynd-' > Ved. mándar: 'delight, intoxicate' (* Ved. mádáyat: 'd.', mádáyate 'delight oneself, get drunk', YAv. máðaua-" 'id.', etc.)
ROOT	THEMATIC PRESENT (INTRANSITIVE)	CAUSATIVE PRESENT (TRANSITIVE)
*sep- be/become warm, hot'	"tépe/o- > Ved. tápati (→ tápate 'be hot', tápati 'heat'), Khot. ttaväre 'are hot'	*topéje/o- > Ved. (AV) tapáyats 'heat', YAv. sāpassa." 'id.', Russ.(+) toplyú, topít' 'id.'
*hzeug- 'be/become strong'	"hr_éuge/o" > Lit. dugu (dugts) "grow", Go. aukan 'increase (intr.)" (→ ON aukan 'increase' tr.)	*h2ouglie/o- >> Lat. augeō, -ēre 'increase'
*h _i leng ^{ph} . 'move effortlessly'	"hilingible/o- > Ved. rainhate 'speed, run' (-> rainhati 'speed on'; YAv. rinja-ti 'id.'), OIrling, -lingat 'jump, leap', OHG gilingan 'succed'	"hilongthéis/o-> Vcd. raitháigtí speed on', YAvrossaua-" 'td.'
*keuk- 'flame up, glow'	*kéuke/o- > Ved. śócati 'glow, be light, burn', YAv. part. sascint- 'id.'	*koukéje/o- > śocáyats 'light up', OAv. saocassa-h 'id.'
*g(x)hers- 'be/become excited, happy'	*g/whérse/o- > Ved. hársate 'be excited, happy', Parth. gi- 'td.', Sogd. w-γi- 'id.'	*g ^(w) orséje/o- > Ved harsáyati 'make happy, excite'
*tres-'tremble (from fear)'	*torise/o- > Ved. traisats 'fear, flee from fear', Gk. τρέω 'id ' Hom +	*troséte/o- > Vcd. (AV) trasáyasi 'frighten', YAv. trashasia " 'id.', Lat terreő, ére 'id.'

This pattern, which is not limited to roots with Caland system associations, represents one fairly common way that inner PIE (that is, PIE after the branching of

¹Provided this is a zero-grade remodeling of the form in question based on the *ta*-stem verbal adjective. See *LIV*² 2001: s.r. **b**eµd with lit.

^{*}See Rau 2009 146ff and 2013 for discussion and additional examples.

Proto-Anatohan and Proto-Tocharian) and the ancestor of Greek and Indo-Iranian, in particular, instantiated the "causative alternation." h This pairing is well attested across all the cross-linguistically typical verbal categories that participate in this alternation, including those that denote states (property concept, position/location, result) and activities (manner of monon, light emission, etc.); cf. e.g.,?

		NASAL-INFIX/
ROOT	THEMATIC PRESENT	CAUSATIVE PRESENT
	(INTRANSITIVE)	(TRANSITIVE)
*temk-'be/become firm, congeal'	*témke/o- > Go. (+) peshan 'thrive'	*tmnék-/tmnk-' > Ved.(YV) ŝtanakt: 'make congeal', OIr. -tėie: 'eurdle', Hitt. tamenk-" 'atrach'
*sh ₂ eus- (bzw. *saus-) *be/become dry'	*sh ₂ εuse/o- > YAv. haola. ^u 'become dry', → Gk. αἴω- ξηραίνω Hdn.	*shzouséze/o· > Ved. (AV) souiyatı 'dry', OCS sušǫ, suisti 'id.'

[&]quot;The term "Guasiree alfernation" is used to characterize verbs that have transitive and intransitive uses, where the transitive means in effect vause the state or activity denoted by the mean of the Verb where the control produced by the mean of the Verb value the state or activity denoted by the variety of the Verb variety of the verb variety

⁸It is important to note that this is simply one way in which the "causative alternation" was instantiated in the proto-language. There were additional patterns, mostly distinguishable by the morphology used to form the intransitive member of the opposition:

INTRANSITIVE	TRANSITIVE
PRESENT FORMANTS	PRESENT FORMANTS
Full-grade athematic middles, e.g. Hitt. 2e-4(n) 'cook'	Nasal infix presents
(zanu-* 'cook')	Iterative-causative presents
Zero-grade athematic middles, eg. Hitt. ser-dni 'burn'	eh2-facutives
(: waren. "burn")	"-ch plus "d"ch.
Full-grade thematic middles/actives, e.g. Ved 36hhate 'appear beautiful' (. sumbháti 'make beautiful, decorate')	
skejo-presents, e.g. YAv. safia-" 'become hot' (' YAv sapasa-" 'heat')	
µe/o-presents, e.g. Ved. mrsyáte 'die' (. [AP] márdyatt 'kill')	
-eh-1e/o/-ske/o-presents, e.g. Lat rubeo be/become red',	
rubësso 'become red' (, rubefacso 'make red')	
-eh plus *h.es-, e.g. Ved gühü as-/bhū- 'be/become hidden'	

The individual branches in part differ in how they pair these formants and which pairings they have productively extended among which semantic subclasses.

⁹The intransitive full-grade thematic present type, which I outline here as a single class and which is also common among roots that do not have a transitive counterpart, actually contains two different inputs—a

middle and an active formation, which are descriptively and, originally at least, semanically and derivationally distinct. It treat them as a single class because of the difficulty of determining what is original in some cases, either because both active and middle forms are attested, or because of the tendency for actives to get remodeled as middles (or new news, in some semanic subclasses), or because the forms in question are attested only in Germanic or Baltic where it is impossible to know the original voice.

As I have argued (Rau 2013, 258ff.), the middle component of this type, which in its unitary thematic form seems to be an inprovation of the later proto-language, contains several different inputs, illustrated below:

INTRANSITIVE FULL-GRADE THEMATIC MIDDLE INPUT TYPES

- Intransitive full-grade thematic middles', e.g., Ved. śrólysze 'lean on', YAv. sraus-te 'tid.' = TA kaltar, B kalytar 'stand'. See Jasanoff forthcoming.
- Full-grade root athernatic middles remodeled as thematic stems, e.g. Ved. Whit' 'appear beautiful'. White'id'.
- Zero-grade root athematic middles derivationally redone after the full grade pattern, e.g. TA nkamtar 'are flooded': Ved. skate 'pour, flow out', Av. halos-"* 'td'.
- Intransitive full-grade thematic middles oppositional to transitive full-grade thematic actives, e.g. Lat. angitur 'be/become squeezed, constricted': ango, -ere 'squeeze, constrict, strangle'.
- Intransitive full-grade thematic actives remodeled as middles, e.g. Gk. allow burn, blaze Pi. S. (allowa 'portico' Hom. +): allowa 'id 'Hom. + , Ved. éditate 'thrive'

To understand the original semantic and derivational parameters of the intransitive full-grade thematic active type, it is important first to note that full-grade thematic presents (with non-complex thematic suffixes) in inner-PIE fall into at least four semantically coherent and well-defined groups.

FULL-GRADE THEMATIC SEMANTIC SUBCLASSES

- Transitive and intransitive verbs denoting sound emission/speech acts, e.g. "b"rem-"roar, bellow", "a"reg'call loudly", "a"gen-"sound", "g"geb;- 'call", "fene- 'make known, speak solemnly", "fege- 'cuss",
 "neak- 'roar, shout"
- Transitive and intransitive cognitive-perceptual-psych verbs, e.g. "b*pend" (perceive, be/become awaze/conscious of; wake up", "g*n0-ge; 'hear", "hygsp: 'hear', "8*e'; 'see, perceive', '#8*e'. 'see, perceive', '#8*e'. 'see, perceive'
- Intransitive werbs denoting activates (+/- COS), including manner of motion (e.g. "fam- 'run", "affre'run", "affregh, 'runce quickly here and there", "feffermile, 'steep, "feffs, 'runke a circum", "peth, 'fly,
 'fam- 'creep', "arse, 'flow", 'fer- 'boil'), weather-crited phenomens (e.g. "hyster- 'tain', 'range',
 'anow'), bodily function (e.g. "hystegh", 'trinine", "neg- 'nod, "hyrage, 'voms'), and light emission
 (e.g. "flyth, 'shire, 'fysteh,' horm, 'flythes- thins."
- Transitive verbs denoting activities (+/- COS), e.g. "der" tear, flay", "drep"- jolick", "bersh- "bir", "b'ersh- "bir", "b'ersh- "bir", "b'ersh- "bir", "b'ersh- "bir", "b'ersh- "bir", "b'ersh- "bir", "b'ersh- "bir", "best- "bir", bir", "bir", "bir", bi

As Jasanoff (1998 and 2003) has argued, the thematic present classes have a chronologically and derivationally-comples hastory (see Jasanoff) 1998; 197ff. and 2005.46ff. jaseff. for the background of at least some of the werbs here), and do not represent a unitary type. Despite this, it is remarkable to note that most of the classes outlined here denote activities (plais or minus a state or directed motion component) and naturally unwhed duration on repressions, something reflected in the fact that a large percentage of thematic active presents co-occur with iterative formations. Note that nearly all the intransitive full-grade thematic active presents purchapung in the "custative alternations" insted here are intransitive versible shorting activities.

(, auhā dhā- 'hide')

Jeremy Rau

Ancient Greek φείδομαι

uleik 'be/become wet'	*ulesk*e/o > Lat. liquor, 1'be fluid, flow' Pl. +	*ulsnék*-/ulink* ' > Lat. pollingé, -ere 'wash (a corpse)		
*h, neRab. 'become great/strong'	"h, uéRd ^h e/o- > Ved. várdhate 'grow' (> várdhatı 'strengthen', OAv. varxda-'ı 'sd.')	*b, uoRd*éie/o- > Ved. vurdháyasi 'strengthen', YAv. varədaua." 'id.'		
*leuk- 'be/become light'	*léuke/o- > Ved. récate 'shine, be light', YAv. part mocant 'id.'	*loukeie/o- > Ved. rocáyats 'hght up', YAv. raocaiia." 'id.', OŁat. lúceő, ére 'id', etc		
*kerh2- 'mix'	*kérhze/o- > OAv. sära-" 'mix with'	*kṛnth; /kṛnh;- ' > Gk. кіомци 'тіх' Hom. +		
*kseyd- 'scatter, dissolve into small parts'	"kséyde/o- > Ved. ksódate 'fall into small parts' (\rightarrow ksódati tr. RV 7.58.1), MP(+) \dot{s} 00- 'grow'	*ksoudtse/o- > Vcd. ksodávatí 'spray out'		
*neb ^h - 'rupture, burst'	*néb*e/o- > Vcd. nábbate 'rupture, burst'	*nobřeje/o- > Ved. (AVP) nambhayati, (Br.) nabhayati 'rupture, burst (tr.)'		
*(s)kedh2- 'split, strew'	"(s)kedb ₂ e/o- > Lith. kedù (kedêtt) 'rupture, burst'	°(s)kə2dnéh2·/(s)kə2dnh2·´ > Gk. axiðvaµu 'strew' Hom. + , → YAv. scindaíia·¹ 'destroy'		
"seph"- 'pour out'	"séik"(o-> Ved. sécate 'pour, gush our' (RV 10.96.1), Av. hatea-* (: OAv. Hateat aspa- PN 'the one whose horses pour/rush our'), -> OHG(+) sihan tr. 'strain, filter'	"sındk"/sink"-' > Ved. sincási 'pour out', YAv. hmea-" 'nd.', Sabel. "simpe-'nd.' ('YAv. 18 haēcassa-" 'empty') ⁸		
*tuer- 'drive on, speed'	"tuere/o- > Ved. (KS) tvárate 'speed', OE ðweran 'move, stir'	*tuṛndu-/tuṛnu-' > Gk. ἀτούνο 'speed on, encourage' Hom.		
*ffuer-'move in a crooked way'	"fbuére/o- > Ved. hvárate 'srumble', ŚB hvalati 'id.' (RV ávihvarant-), YAv. part. zbarmt-, zbarmna-'id.'	*ghurnéh, /ghurnh, '> Ved. v. hrunati 'make go astray' (: Br hvárayati)		
*h_eig- 'move oneself strongly'	*h,tyle/o- > Ved. ejatr 'stir, quaver'	*h,mig-/h,ing-' > Ved. mgdyati 'set in motion' (: KS+ ejayant-)		

⁸The Sabellic verb is possibly reflected in Lat. timpunium, timpulium 'ladle used in sacrifices', if a Sabellic loan, as suggested by Rix (apud LIP') 3(3) and independently Forison (2008:66–7), who also suggests that Italic inferred a full-grade thematic present here.

*trem- 'tremble (from fear)'	*tréme/o- > Gk. τρέμω 'tremble, fear' Hom +, Lat tremo, ere 'td.'	*tromése/o- >> Umbr. tremstu 'make tremble'		
*b*remb _e *be/become unsteady'	*b*rémh,e/o- > Ved (BAU) bhrámats 'blazc'	*b*romb, &&o- > Ved. (Sū) bhrāmāyatı 'drīve here and there'		
*h,rem-'be/become still, quiet'	"h,réme/o- > Ved namate 'come to rest', YAv rāma-" 'linger, pause'	"h,romete/o- > Ved. rāmāyati 'brings to rest' (: Ved. ramnāti 'id.'), YAv. rāmaita " 'id.', OIt. ·fiurmi 'set, lay')		
*uent- 'turn oneself'	*uérre/o- > Ved. varrate 'turn oneself, roll', → YAv. varrata." 'turn' tr., etc.	"uortiu/o- > Ved. vartäyati 'turn', etc		
*nem-*bend oneself, bow*	"néme/o- > Ved. namatr 'bend oneself, bow' (+ námate 'id.', námatr tr.), YAvnama-" 'id.' (: YAvnáma-" Yt. 57.18, Yt. 19 25)	"noméje/o- > Ved. namáyatı 'bend', YAv. námaiia-" 'td.'		
*klej- 'lean on'	"klėje/o- > Ved. śrójyatė 'lean on' (→ śrójyatė tr.), YAv. śrójia-" 'td.', → Latv. śleju (śliet) tr.	*k[nέ]-/k[ss]-' > YAv. -ssrsnao-" 'lean on', Gk. κλίνω 'id.' Hom. + , etc.		
*jer-*position oneself*	"téte/o- > Ved. ydtate 'firmly position oneself' (+ ydtati tr.), Lat. nitor 'lean, support oneself on'	°jotsie/o- > Ved. yātāyati 'position firmly', YAv. yātaula- ⁿ 'id.'		

Based on this pattern, especially as it is found with the result state-oriented roots *kersls., *nu6b* and *(s)kedsls.,* it is possible to reconstruct for inner-PIE a *causative alternation" pair here, viz. *b*fido/s-*mi* intr. *splir*: *b*finid-/b*finid-*nimi* act. tr. *splir*, mid. tr. (self-benefactive, reflexive, reciprocal) and intranstrue.*

There are two ways to explain how this starting point resulted in what we have in Greek, Germanic and possibly Khotanese. A first possibility is to assume that a transitive full-grade thematic active *b*p4a0/e** was backformed directly from the intransitive middle and eventually displaced the inherited nasal-infix present, with Greek ultimately generalizing the middle and Germanic and Khotanese the active, viz. *b*p4a0/e*** intr. *split*: *b*mid-/b*mid-*n*on** act. tr. *split*, mid. tr. (self-benefactive, reciprocal) and intransitive **b*p4a0/e**** intr. *split*, tr. (self-benefactive, reflexive, reciprocal) **b*h4a0/e*** tr. *split*, int. its type of backformation is well attested

^{*}This functional distribution is reflected directly in e.g. *Sumbhisti* act tr., mid. tr reflexive and intransitive (RV 6.64-2) (and passive): Ved. *śóbinte* intr

in the individual languages. In Vedic and Avestan, it resulted in many transitive fullgrade thematic actives that came to compete with inherited nasal-infix and causarive presents and that in Vedic, at least in the post-Rigipsda period, were largely eliminated in favor of the causative. ¹⁰ In Greek, this process applied more or less systemanically, ¹¹ with the generalization of either the thematic or the nasal-infix form, and resulted in the large-scale climination of the "causative alternation" pattern outlined here. Similar developments hold for Germanic.

A second and more interesting possibility is to assume that the development outlined above took place as a result of a more complex process. Here we might conjecture that the originally intransitive full-grade thematic middle first took on reflexive (and reciprocal) and self-benefactive functions, in effect patterning as a functional analogue of the oppositional middle of the transitive nasal-infix or causative present, Vz.:

*bhinéd-/bhind-'t\/tor/i		$^*b^b\dot{e}\dot{q}do/e^{-tor/i}$ \rightarrow	*bhinéd-/bhind-'zi/zor/i		*b*éido/e-tor/i	
ACT.	MID.	MID.		ACT.	MID.	MID.
Tr.	Tr. SB ¹²			Tr.	Tr. SB	Tr. SB
	Tr. RF/RC				Tr. RF/RC	Tr. RF/RC
	Intr.	Intr.			Intr.	Intr.

Greek may then have reached this stage of development and eliminated the nasal-ınfix present directly, or like Germanic and possibly Khotanese have first backformed a transitive full-grade thematic active. Some originally intransitive full-grade thematic middles participating in the "causative alternation" may in fact have taken on reflexive and self-benefactive functions already in the late proto-language (at least in the ancestor of what became Greek and Indo-Iranian). This is indicated by two facts: (i) the extension of reflexive meaning to the intransitive member of the alternation in some cases in Vedic, so clearly in papt" - "purfty" —

punázi/punšté		pávate 'flow pure; purify oneself'	
ACT.	MID.	MID.	
Tr. ✓	Tr. SB/A ✓	Tr. SB/A ×	
	Tr. RF/RC ✓	Tr. RF/RC ✓ ¹³	
	Intr. ✓ (e.g. RV 10.70.3) (+ passive)	Intr. 🖍	

¹⁰ See Goto 1987:12

—and (2) the creation in Vedic and Avestan of oppositional full-grade thematic middles in reflexive and self-benefactive function that replicate morphologically what is found in the "causative alternation" but that are made to verbal roots with relatively high agentivity which should have been excluded from this alternation. Thus YAV. arks. pactarmae. 'decorating oneself with hooks' YC.17.10 and aipi.phramnae. 'submitting oneself to confiscation (as a means of reparation)' 'N.3.07.5* which function as reflexives to the nasal-infix presents "pinas-n" 'confiscate (as a means of reparation)' 'A.3.10-3, respectively," and Ved. adjuste 'take vengeance on/for, punish', which functions as a self-benefactive to the reduplicated present 'YAV. cikairi.n" 'pay, pay for (an offense)' V.7.38* and duplicates exactly the semantic relationship between Gk. πίνωμα/πίνομαω 'take vengeance on/for, punish' Hom.+ and πίνω 'pay, pay for; discharge (an obligation)' Hom.+.**

Abbreviations

DGEEP = Schwyzer, Eduard. 1923. Dialectorum Graecarum exempla epigraphica potiora. Leipzig: Hirzel.

LIV^x = K\u00e4mmel, Martin, and Helmut Rix (eds.). 2001. Lexikon der indagermanischen Verben: Die Wurzeln und ihre Primarstammbildungen. 2nd ed. Wiesbaden: Reichert.

References

Alexiadou, Artemis, Elena Anagnostopoulou, and Florian Schäfer. 2006. "The properties of anticausatives crosslinguistically." In Phases of Interpretation, ed. Mara Frascareli, 187–212. Berlin: Mouton de Gruyter.

Beckes, Robert S. P. 2010. Etymological Dictionary of Greek. 2 vols. Leiden: Brill.

Chantraine, Pierre. 1999. Dictionnaire ésymologique de la langue greeque: Histoire des Mots. Avec un supplément sous la direction de Alain Blanc, Charles de Lambertene et Jean-Louis Perpillou. Pans: Klincksjeck.

Fortson, Benjamin W. IV. 2008. "Bleary eyes and ladles of clay: Two liquid Sabellicisms in Latin." Glotta 84:52-71.

[&]quot;Note the examples in the tables above and see Rau 2000 112ff, and 2013-248ff.

¹²SB = self-benefactive, RF = reflexive, and RC = reciprocal.

[&]quot;On the reflexive reading of phinars, which is natural in the context of the Sonia lymms as the honorand has pointed out to me, see Janisson and Berreton 2014 at RV 9.1. Note that this reading is not a natural component of the meaning of this verb. This contrasts with verbs of change of position or location, like Ved insplate "lean on, incline onciet!", where both readings are natural and possible. Verbs of this larrier type provide at neasy straining point for the functional extension highlighted them.

⁴ºThe long vowel is presumably analogical to that in pinn- 'debt.' See Kellens 1984:117, who, however, suggests that the verb is denominative

[&]quot;Note also YAv. finguria." submit (tanúm V.4.7, afarriú V.5.2) to confiscanon', which seems to have undergone a development from passive to reflexive/self-benefactive and then self-benefactive more generally— a development that resembles what is being conjectured here

[&]quot;See also Gotó 1987-131 n. 164, who tentatively invokes the morphological pattern used here to explain the form, hor suggests that it may in the first instance have been intranstive: I assume that the use of the middle with the aggreved party as subject originally meant something like 'pay to oneself' (compensation in respect to) the offense/offending party.' Note that in Gk. "riso is used not just to denote payment for an offense committed, but also for diskstruping any oblogation, whether good or but, more generally

Frisk, Hjalmar. 1955-72. Griechisches etymologisches Wörterbuch. Heidelberg: Winter.

Gotö, Toshifumi. 1987. Die I. Präsensklasse' im Vedischen: Untersuchung der vollstufgen thematischen Wurzelprusentia. Vienna: Österreichische Akademie der Wissenschaften.

Grestenberger, Laura. 2014. "Feature mismatch: Deponency in Indo-European languages." Ph.D. diss., Harvard University.

Lamicon Serbanne W. and Icol P. Representations. The Riemeda. The Earliest Religious.

Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda. The Earliest Religious Poetry of India. 3 vols. Oxford: Oxford University Press.

Jasanoff, Jay H. 1998. "The thematic conjugation revisited." In Mir Curnal: Studies Presented to Calvert Watkins, ed. Jay Jasanoff, H. Craig Melchert, and Lisi Oliver, 301–16. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.

- . 2003. Hittite and the Indo-European Verb. Oxford: Oxford University Press.

---- . Forthcoming, "Toch. AB ākl- 'learn'."

Kellens, Jean. 1984. Le verbe avestique. Wiesbaden: Reichert.

Kuhkov, Leonid I. 2012. The Vedic -Ya-Presents: Transitivity and Intransitivity in Old Indo-Aryan. Amsterdam: Rodopi.

Levin, Beth. 1993. English Verb Classes and Alternations: A Preliminary Investigation.
Chicago: University of Chicago Press.
Levin. Beth. and Malka Rapoport Hovav. 1995. Unaccusativity: At the Syntax-Lexical

Levin, Beth, and Malka Rappaport Hovav. 1995. Unaccusativity: At the Syntax-Lexical Semantics Interface. Cambridge, MA: MIT Press.

Malzahn, Melanic. 2014. Review of Kulikov 2012. Kratylos 59: 83-106.

Pokorny, Julius. 1959. Indogermanisches etymologisches Wörterbuch. Bern: Francke.

Rau, Jeremy. 2009. Indo-European Nominal Morphology: The Decads and the Caland System. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.

—. 2013. "Notes on state-oriented werbal roots, the Caland system, and primary verb morphology in Indo-Iranian." In Multi Nominis Grammaticus: Studies in Classical and Indo-Iranian." In Multi Nominis Grammaticus: Studies in Classical and Indo-Iranjoan Iranguistics in Homer of Alam J. Nuobaum on the Ocasion of His Sixey-fifth Birthday, ed. Adam I. Cooper, Jeremy Rau, and Michael Weiss, 245–73. Ann Arbor: Beech Stava.

Hittite uktūri:: A "Thorny" Problem in Anatolian*

BLISABETH RIEKEN

T Introduction

This article, dedicated to the dopenne of American Indo-European linguistics and Sanskrit studies, and the honorand of this volume, is meant as a small token of admiration not only for her scholarly work, but also for her personal generosity and kindness. In what follows etymologies are proposed for three Hittite words:

- a) uktūri- 'imperishable',
- b) uktūri 'forever',
- c) uktūri- 'cremation site'

These proposals, moreover, will contradict the communis opinio that Anatolian, and specifically Hittite, does not show metathesis of inherited PIE sequences of dental/alveolar plus tectal (*-TK-), which gave rise to the interdental fricatives [b] and [d].

2 Philological facts

Most of the philological facts are easily accessible for the words in question in the handbooks (HEG U 27–32, EDHIL 912–3). Further attestations were kindly made available to me by Jürgen Lorenz (pers. comm.).

2.1 uktūri- 'imperishable'

The semantic range of the adjective whethers is undisputed: in connection with gods and humans it means 'eternal, everlasting'; similarly with concrete objects such as pieces of copper, temples, cities, corners of the world, stones, bread, etc., where it is

[&]quot;This article was first presented as a paper at the Craven Seminar, held at Cambridge University on May 31, 2013, and at the sand East Coast Indo-European Conference, held at the Adam Mickiewicz University in Poznań on June 22, 2013.

used for 'everlasting, permanent, imperishable'; and finally with abstract notions and actions such as life, marriage, words, allotment, rules, festivals, and positions that are characterized by uktūri- as 'everlasting, regular', or 'normal', cf. examples (1) and (2):

- k[i] ^{Na}-pēru maḥḥan uktūrī BELU U DAM:SU DUM[U.MEŠ:Š]U QATAMMA uktūriytā akandu
 "As this stone is everlasting, the lord and his wife and sons shall likewise be everlastine," (KBO 15.10 ii t)
- (2) [n]wza uksurn UDUN-in IBNI "He (stil. the vegetation god Telipinu) built a fireproof/imperishable furnace." (KBo 26.124+ iii 27'; ibid. iii 28', where probably another god melts tron in it)

The inflection of this adjective is remarkable for the fact that, unlike most Hittle adjectives (e.g. nom. sg. faillé 'grach', gen. sg. faillaí 's failay-ai'), the stem-final -i-of uktári- does not show any ablaut. The same is true for the denominal derivatives uktárirá!b' -become lasting' and uktáriyabbb' -make lasting' with its imperfective stem uktárirább; -Ct. fr the following representative list of attestations for the adjective:

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nom. sg. c. uk-tu-ri[(+ii)] (KBO 4.1 i 8)
acc. sg. c. uk-tu-ri-rin (KBO 4.1 i V 12)
nom./acc. sg. n. uk-tu-u-ri-f (KBO 15.10 i i 5)
dat./loc. sg. uk-tu-u-ri-i-sfi (KUB 4.1 i 36)
nom. pl. c. uk-tu-u-ri-i-sfi (KBO 15.0 i i 5)
acc. pl. c. uk-tu-u-ri-i-uf (KBO 49.189 + i o')
nom./acc.pl. n. uk-tu-u-ri-i-f (KUB 4.1 i 13)
dat./loc. pl. uk-tu-ri-i-yl-ad-sko (KUB 3.6 so obv. 4)
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Contrary to what is found in the handbooks, the alleged form we alk* *Jw**n**ii (KUB 3:120 i 6, characterizing the gods Enlil and Ninlil) must be regarded as a ghost word, as has been demonstrated recently by Corti and Pecchioli Daddi (2012:614-6). The word can now be read as *w**alf-I}*w**n**ii**d and is wholly unconnected with *uknin**i**merishable.

2.2 uktūri 'forever'

The adverb uktūrī 'forever' seems to be an offshoot of the nom./acc. n. sg. of the adjective. Its semantics are unremarkable, cf. example (3):

(3) nu-wa nuk halidin uktion-par LUGAL-waé MUNUS.LUGAL-ai DUMU.MES.LUGAL haliói harzañsé anda hulalishandu "The king and queen's children, grandchildren and great-grandchildren shall circulate around you, o hearth, forever!" (KBo 17.105 ii 23-4)

2.2 uktüri-'cremation site'

The noun uktūri- denotes both a cremation site for corpses and an incineration dump for impure remnants of rituals, cf. Otten 1958:141 and examples (4)-(6);

- (4) nu MUNUS.MEŠ uktu[ry]a haśtiaś leśśuwansi pānzi "The women go to the cremation site to collect the bones." (KUB 30.15+ obv. 1)
- (s) mabba UN-san kini[(ki)] parkunazai kuptarr-a [(ukr)]uriyai pēdā[i] takbu-at A.S.—ni naima parn[(i ku) peilka p[(edāi)] almanzatar "If anyone performs a punfication ritual on a person, he disposes of the remnants (of the ritual) in the incineration dumps. But if he disposes of them in someone's field or house, it is soreery." (KBo 6.5 iv 17–20 with duul.)
- (6) t-an parkunuddu KUR-S[U-ya park]unuddu n-at uktiñriyal pēdau uktu[r]yai-dan AN.BAR palpit kita sitapp [u]litifu isūl[ty]ta!
 "He shall purify him and purify his land as well. He shall carry it to the incineration dumps. In the incineration dumps lies a vessel of iron. Its lid (is made) of lead." (KUB 9.11 + IBOT 3.98 + KUB 8.8.82 i 20-3)

The noun is normally thought to be an *i*-stem, and there is no counterevidence to this assumption, since neither nom, sg. nor acc. sg. is attested, tef.:

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d.-l. sg, "uk-tu-u-ri-yu KUB 30.17 obv. 15
all. sg, uk-tu-(-u-ri-y)u" (KUB 30.15 + obv. 1)
abl. uk-tu-ri-yu-au (KUB 30.15 + obv. 46)
d.-l. pl. "uk-("(un-u-ri-uz)) (KB0 6.2 ii 34); uk-tu-u-ri-yu-af (KUB 9.11 + i 21)
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3 Previous research

The question that immediately arises is whether we are dealing with homonyms or whether there is a common origin for the three lexemes. Gertz (1982:15f., 111f.) assumed the latter and took the starting point for all three to be the noun whithir-'termation site', on the grounds that the lack of ablaut in the suffix would be regular here. One might object, however, that the implausible semantic development of 'cremation site' to 'imperishable' poses a serious difficulty for this suggestion.

Tischler, on the other hand (HEG U 28), started from the adjective uktūri- 'imperishable' and regarded the noun ukturi- 'cremation site' as a substantivization or

IKLB 30.15+ obv. 43 ms is inhibited [9] (5) cannot count as an assured nom. sg. n. (thus Kassian, Korolev, and Sidel'ssev 2002/260, "and these are (the actions with) the pyr[e.]"), since the sentence is rather to be translated as "this (happens) are the cremation site".

ellipsis, meaning 'eternal (fire)'. A modification of this was proposed by Klockhorst (EDHIL part), who suggested an original meaning 'fire-proof (place)'. Neither sugstion is wholly convincing, since the problem of the lack of abatu in the adjective is not solved by either. Moreover, there is no indication in Hirtite literature for the existence of an eternal fire. Nor, finally, is it altogether likely that a cremation site would be called a "(place which is) not burning" (cf., however, whavirin UDUN-in 'fireproof/imperishable furnace' in KBo 26.124+ iii 27').

As for the root etymology, there have been two main proposals (cf. references in HEG U 31). One is that of Puhvel (1972-115), followed by Weeks (1985:80, 186, 203), who connected uktūri- 'imperishable' with PIE *hzeug- 'become strong, grow' (LIV2 245; Lat. augēre 'make grow', Skt. ójas- 'strength', etc.). But since most scholars would agree that *h2 should have been preserved in Hittite, a derivation from *h2eygseems phonologically impossible. Ajxenval'd, Bajun, and Ivanov (apud HEG U 31, non vidi), in contrast, advanced the idea that PIE *ueg- 'be lively' (LIV2 601f.; Skt. paja- 'strength, vigor; speed; fight', Lat. regêre 'be awake; wake up, stir', Go. wakan 'be awake' etc.; cf. already Duchesne-Guillemin 1946:91) is the root underlying both Hitt. uktūri- 'cremation site' and Av. ātra-vazana- 'Feuerwedel', Skt. upa-vājāya- 'fan, kindle'. But the connection with fire is clearly secondary and extremely weak: it comes into play only when fire is explicitly mentioned either as the first member of a compound (Av. ātra-pazana- 'Feuerwedel') or the object of a verb (Skt. upa-pāsāya- 'fan. kindle', Taittiriya-Samhıtā), Klockhorst (EDHIL 912f.) makes no mention of his predecessors, but refers to the semantic suitability of the root *uef-, probably having uktūri- 'imperishable' in mind.

In addition to the phonological and semantic problems just mentioned, these proposals are no more than root crymologies. The word formation remains unclear. The comparison of the suffix with Skt. -un-i, as in any-un-i 'finger' (Ricken 1999:344) is also of little explanatory value, since this Caland suffix combination has a clearly secondary oriein.

4 New proposal for uktūri- 'cremation site'

The new proposal that will be made here for whithir-'cremation site' has PIE "nh" gpth. 'burn' (LIV" 115f.) as its starting point. This root is semantically very attractive for the crymology of the name of a 'cremation site'. The root is well attested, e.g. in Skt. ddhati 'burns', Av. daisats 'burns', Lith. dagh. dagh' burn, kindle', etc. It is also the basis for derivatives such as the ficintive verb "nh" ph-ch; (in Skt. kah-yasi 'burns (intr.)', LIV" is) and the root extension "nh" ph-c; (in Ved. inpre. kishlid 'destroy!', dknta- 'imperishable', Gr. č60*ro 'the perished', etc., LIV" 131E). As a consequence of derivation and root extension, the root "nh" gpth- is reduced to its zero-grade "nh" phgiving rise to a nitual #TK- Custer already in PIE.

4.1 Metathesis of initial *dbgwb-

The various views that have been expressed on the phonological development of such clusters cannot be rehearsed here in full (e.g. Schindler 1967 and 1977; McCone 1986:48; Mayrhofier 1986:191-8; LIP 132 n.1; Melchert 2003; Pinault 2002[2006] 118-26; Steer 2013). The main issue for the exymology in question is that, according to the communus opinio, Anatolian and Tocharian do not show the effect of the metathesis "(-/TK- *(-)KT- and subsequent sound changes. Since Petersen (1933:23-4), this has been used as an argument for the assumption that Anatolian and Tocharian branched off early, before the other Indo-European daughter languages underwent the metathesis as a common innovation that allows us to posit the node for "Core" or "Inner" Indo-European in the Stammbaum (cf. AHP 64 and Kimball 1999:238 on this line of argument).

The assumption that Hittite never participated in the metathesis *(*)TK->*(*)KThas rightly been challenged by Melchert (AHP 64), who claimed that in path: *shut: and tekan/hakn-'carth', *(*)TK- can always have been restored if Schindler's (1977;32-3) restriction of the metathesis to tautosyllabic position is correct. In these cases is the occurrence side by side of metathesized almorophs in the paradigm that would have led to the restoration. The third word, Hirt. harragga-"bear" < *hp.rt.kn-, would never have been metathesized. Therefore, the suggestion of a reflex of metathesized *y**\(\frac{1}{2} \) < *\(\frac{1}{2} \) \(\frac{1}{2} \) *\(\f

4.3 Derivational chain

The derivational process begins with the formation of an adjectival -m- stem with full grade of the roots: "\$\frac{n^2 \left(g^{mk}, r)}{n^2}\$ bruning, burnt', as indirectly reflected by the "\$\frac{n}{n}\$, collective noun Gk. "\$\frac{n^2 \left(g^{mk}, r)}{n^2}\$ bruning, then ext set was that of building an acrostatic \$i\$-abstract to the \$e\$-adjective (cf. for this type Schindler 1980:390): "\$\frac{n^2 \left(g^{mk}, r)}{n^2} \right(g^{mk}, r)-"\$\frac{n^2 \left(g^{mk}, r)}{n^2}\$ bruning', the latter being continued by Lat. \$\frac{n^2 \left(g^{mk}, r)}{n^2}\$ expressional possessive compound (of the type \$\frac{n^2 \left(g^{mk}, r)}{n^2}\$ are prositional possessive compound (of the type \$\frac{n^2 \left(g^{mk}, r)}{n^2}\$ are feduced to its zero-grade "\$\frac{n^2 \left(g^{mk}, r)}{n^2} \right(r)-r^2 \right(g^{mk}, r) \right(g^{mk},

[&]quot;The alternative connection with the root "g" d"er- (but "g" g"er- LIV" 191) seen in Gk. \$666a6 'clestroy', Skr. Isser- "How' (Olav Hackstein, pers. comm.) suffers from the fact that the semantics of a root meaning "flow" (Janison 1991) do not lend themselves to an etymology for a word for 'cremation site.' In addition, the derivational relationship with Gk. "r66a6 'ashee' and Lat. febris Tever' (see above) would be lost.

The final denorational step was first suggested to me by Paul Widmer and Alan Nussbaum, and then buttressed by further evidence for the type in the discussion after the presentation at ECIEC 12 in Poznań 1 am grateful to Georges-Jean Pizualit and Martin Kummel for their contributions to the solution.

The reduction of "m as first member of a compound is exactly paralleled by Hirt. antiumblpha/mntublps "man, human being, person' < " η_{1} - η_{2}^{*

Outside Anatolian, Gk. & seasos 'brain' < "ps-frgb.-o' '(found) in the head' has a comparable morphological structure, showing a zero-grade form in both the first and second members of the compound (cf. Nussbaum 1986:72=3 and, in general, Lindner 2011:42-4, with references on the ablaut reduction of compound members). Another very reasonable example of zero-grade "ps- in Greck, kindly suggested to me by Alan Nussbaum (p.c.), is Homeric & Juhog ling, 'a forest/copse (@m) with (lots of) wood (\$\vec{g}\wideta_0\) in it, a well-wooded copse'. This analysis of a compound like & \$\vec{g}\wideta_0\) avoids the difficulties posed by the two competing analyses. The first is that of the suspiciously regular spiciosi is one explains such an "alpha epitatikon" as coming from "sys-. The second is the need to assume the implausible meaning 'with no timber cut from it' if one supposes & \$\vec{g}\wideta_0\text{ty} et to have been a privative compound (e.g. LS) 172, following a Homeric scholiast).

Tocharan B $\epsilon(N)$ -, $\epsilon(N)$ -, $A\epsilon(N)$ -, $\epsilon(N)$ -, $\epsilon(N)$ - (Common Toch. " ϵN -)" in, at, on 'is found in adverbial expressions that, according to Hilmanson (1991, especially pp. 9-12), go back to Tocharian univerbations of the preposition " θ with nouns. The origin of zero-grade " θ " in, at, on 'is probably to be sought in inherited compounds, from which it spread to the functional domain (as preposition or preverby of the local particle " θ " with full grade. Also Lithuanian $j(\cdot) < "g(\cdot)$ (cf. IEW 312, Fraenkel 1955:181), being used both as the regular preposition and as a first member of compounds, may be assumed to have its origin in compositional reduction.

Therefore, if compounds with a zero-grade allomorph *y- as their first member can be reconstructed for Proto-Indo-European both for structural reasons and on the basis of reflexes in several daughter languages, the following derivational chain can safely be assumed:

*dhégwh-no- 'burning, burnt'

→ *dhogwh-rt-/*dhegwh-rt- 'burning'

→ *ŋ-g**hab-rs- 'having the burning inside' (with metathesis)

4-3 Further phonological development

The inherited word "\$\textit{g}" \textit{g}" \textit{g}" \textit{having the burning inside' underwent various phonological changes that made its structure opaque. The first is the regular loss of aspira tion (\textit{AIP (a)} \textit{"g}" \textit{g}" \textit{hr}' \textit{...} \textit{ Secondly, two epenthetics cowels evolved: one before the syllabic nasal and the other between d and r. The first resulted from regular sound change, while the second was a consequence of a shift in the syllable boundary; once the word was lexicalized and no longer recognized as a compound with the negation prefix, the syllable boundary moved between the two plosives ("\textit{g}" \textit{d}" \textit{hr}' \textit{...} \textit{Then, unsurprisingly, an epenthetuc vowel arose in the syllable-initial cluster. ITs-'* "\textit{g}" \textit{d}" \textit{hr}' \textit{"g}" \textit{d}" \textit{hr}' \textit{...} \textit{Then, unsurprisingly, an epenthetuc vowel arose in the syllable-initial cluster. ITs-'* "\textit{g}" \textit{d}" \textit{hr}' \textit{ Sign \textit{d}" \textit{hr}' \textit{...} \textit{Then, unsurprisingly, and penthetuc vowel arose in the word-initial clusters of \textit{sri} \textit{sri}'

In "mg"dsri-, however, both epenthetic vowels underwent rounding immediately, as one would expect in a labialized environment. That the labialization of g" would have spread as a secondary articulation to the surrounding consonants is a phonetic null hypothesis, as has been stated by Laver (1904:131):

Labialization is found as a secondary articulation in virtually every language of the world. Labial action of this sort seems less focused in the stream of speech than some other articulatory features, and spreads easily from its major segmental origin to neighbouring segments, particularly in an anticipatory direction [citation omitted, ER].

The spread of labialization to a neighboring vowel, especially to [a], which does not have any distinct features, is also a well-known and frequent process (for instance in Latin weak vowels, cf. Weiss 2009:118). Accordingly, it is easy to imagine that "ngg"dni-was phonetically realized as [anj"g"d"o"ri-] and developed to "ng"g"d"uni-. This is corroborated by other well-established examples in Hirtite, e.g. "k"n:n-> kuntra- in haurnes-"the fourth one, i.e. witness' and "k"[i-inti) > \(\frac{n}{2} \) \(\frac{n

Finally, a nasal is dropped in Hittite before a cluster of two consonants. This sound law, recently investigated and confirmed by Shatskov (2006), is also responsible for the allomorphy of the Hittite nasal infix -nin-/ni-, where -nin- is used before endings beginning with vowel (3 pl. pres. /larninkanzi/ (Sar-ni-in-kán-zi/) while -ni- occurs before endings beginning with consonant (3 sg. pres. /larnikál-zi/). In the

[&]quot;Theoretically, a reconstruction "9-g" "a"-ri-o- is also possible, since the stem form ukuiriyu cannot be excluded (see \$2.3)

case of * $u\eta^{m}g^{m}d^{m}ori$ -, η^{m} was lost, giving rise to * $ug^{m}d^{m}ori$ - (uk-tu-u-ri-),5 the form artested in the texts.

The phonological developments can accordingly be summarized as follows:

*ndi'g**ri
 *ng**d*ri
 *ng**d*ri
 *ng**d*ri
 *ng**d*ri
 *ng**d**d*ri
 *ug**g**d**d*ri
 *ug**g**d**d*ri
 *ug**g**d**d*ri-

5 New proposal for uktūri 'forever' and uktūri- 'imperishable'

In spite of the difference in meaning, the root we propose to begin with is again "Adign". burn' (LIP' 1915), and once more the primary verbal adjective in "¬¬, "Adign". burning, burnt', can be regarded as the first step of the derivational process. From "Adign". ¬¬, was built a privative compound "p-gn"\delta". ¬¬ \no to burning, not burnit', with introduction of a zero-grade root and the subsequent metathesis (see above, 8-a.). This in turn was the basis for an i-abstract "p-gn"\delta". ¬i-i \non-burning' (for the type, cf. again Schindler 1980-390). Its instrumental case form "p-gn"\delta". ¬i-i-h, \within to burning' developed into an adverb. "p-gn"\delta". ¬i-i-h, \within to burning' is directly reflected in the adverb ulasin's florever', having developed by the same sound changes already described for "p-gn"\delta". ¬i-r \within the site in \$4.3. The semantic change from 'without burning' \rightarrow \within \withi

The adjective whitein-'imperishable' can now be easily interpreted as a hypostasis based on the adverb without further derivational suffix. This would also explain the lack of ablaut in the -i-suffix. The same process also applied to non-ablauting adjectival makkt-'weighty, important', which goes back to the adverb makkt' important's whole, boes back to the adverb makkt' important's whole, boes back to the adverb makkt' without capacity and in which is which in weight, with importance', as demonstrated by withere (2005) 2007; 200–2). The difference between uktūrs and makkt in accent and vowel lengthening displayed by the plene written vowels originates in the attraction of the accent by the epenthetic vowel in whiteir (see §4.3).

A summary of the development goes as follows:

- *dhégwh-ro- 'burning, burnt'
- > *n-qwbab-ro- 'not burning, not burnt' (with metathesis)
- + *n-qwhah-r-i- 'non-burning'
- → *n-q^{wh}d^h-r-i-h₁ 'without burning'
- > ukturi 'forever'
- → uktūri- 'imperishable'

6 Summary and conclusion

In the preceding sections, etymologies for three homophonous Hittite words have been suggested:

uktūri- subst. 'cremation site' < *p.g**bd*-ri- 'having the burning inside' uktūri adv. 'forever' < *p-g**bd*-ri- 'h, 'without burning' uktūri- adi, 'imperishable', hypostasis to uktūri- adi, 'imperishable', hypostasis to uktūri- adi, 'forever'

All are based on a metathesized zero-grade of the root " $a^0 g^{ab}$." burn". The reconstruction, if accepted, provides new evidence for the "thorny problem" (cf. Schindler 1977), since they make it probable that the PIE metathesis " $a^0 g^{ab} > y^a e^a h^a$ took place before Anatolian branched off.

Abbreviations

AHP = Melchert, H. Craig. 1994. Anatolian Historical Phonology. Amsterdam: Rodopi. EDHIL = Kloekhorst, Alwin. 2008. Etymological Dictionary of the Hittite Inherited Lexicon. Leiden: Brill.

HEG = Tischler, Johann. 1977 - . Hethwisches etymologisches Glassar. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.

IEW = Pokorny, Julius. 1959. Indogermanisches etymologisches Wörterbuch. Vol. 1. Bern: Francke.

LIV² = Kümmel, Martin and Helmut Rix, eds. 2001. Lexikon der indogermansschen Verben: Die Wurzeln und ihre Primarstammbildungen. 2nd ed. Wiesbaden: Reichert.

LSJ = Liddell, Henry G. and Robert Scott. 1940. A Greek-English Lexicon. Revised and augmented throughout by Henry S. Jones. Oxford: Clarendon.

References

Benguerel, André-Pierre, and H. A. Cowan. 1974. "Coarticulation of upper lip protrusion in French." Phonetica 30:44-55.

Corti, Carlo, and Franca Pecchioli Daddi. 2012. "The power in Heaven. Remarks on the so-called Kumarbi Cycle." In Organization, Representation, and Symbols of Power in the Ancient New East, ed. Gernot Wilhelm, 611–8. Winona Lake, Eisenbrauns.

[&]quot;For the spelling with the UK-sign cf. (tar-uk-zi) and (ta-ru-u[k-zi]) beside (tar-ku-zi) for /tark\"tsi/(cf. EDHIL 84z) and frequent (\(^{10}\)(tu-ub-kān-ti-i\)) beside rare (\(^{10}\)(tu-ub-hu-kán-ti-i\)) for /tuh\"k-/.

⁶Martin Kummel kindly mentions to me another example of the same semantic development, Iran. *anada 'not burning' (*h.eus 'burn') > Av. anada 'imperishable'

- Duchesne-Guillemin, Jacques. 1946. "Études hittires." Transactions of the Philological Society 1946:73-91.
- Eichner, Heiner. 1979 Review of Johann Tischler, HEG I, Lieferung I. Die Sprache 25:204-6 (Indogermanische Chronik 25b).
- Fraenkel, Ernst. 1955. Litaussches etymologisches Wörterbuch. Vol. 1. Heidelberg: Winter / Gottingen: Vandenhoeck & Ruprecht.
- Gertz, Janet E. 1982. "The nominative-accusative neuter plural in Anatolian." Ph.D. diss., Yale University.
- Hilmarsson, Jörundur 1991. The Nasal Prefixes in Tocharian: A Study in Word Formation. Reykjavík: Skákprent.
- Jamison, Stephanie W. 1993. "Thornless paths and others: Vedic anticani-/ Greek &below." In Indogermanica et Italian: Festichrift für Helmut Rie sum 65. Gebursstag, ed. Gerhard Meiser, 237–51. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Kassian, Alexei, and Ilya Yakubovich. 2002. "The reflexes of Indo-European initial clusters in Hittite." In Anatolian Languages, ed. Vitalij Shevoroshkin and Paul J. Sidwell, 10–48. Canberra: Association for the History of Language.
- Kassian, Alexei S., Andrej Korolëv, and Andrej Sidel'tsev. 2002. Htttite Funerary Ritual šalliš waštaiš. Münster: Ugarit.
- Kimball, Sara E. 1999. Hittite Historical Phonology. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Laver, John. 1994. Principles of Phonetis. Cambridge, UK: Cambridge University Press. Lindner, Thomas. 2011. Indepermanische Grammatik. Vol. 4, part 1, fascicle 1: Komposition. Heidelberg: Winter.
- Mayrhofer, Manfred. 1986. Indogermanische Grammatik. Vol. 1, part 2: Lautlehre. Heidelberg: Winter.
- McCone, Kim. 1986. Towards a Relative Chronology of Ancient and Medieval Celtic Sound Change. Maynooth: Department of Old Irish, St. Patrick's College.
- Melchert, H. Craig. 2003. "PIE 'thorn' in Cuneiform Lavian." In Proceedings of the Fourteenth Annual UCLA Indo-European Conference, ed. Karlene Jones-Bley, Martin E. Huld, Angela Della Volpe, and Miriam Robbins Dexter, 145–61. Washington, DC: Institute for the Study of Man.
- 2013. "Hirtire 'heteroelite' s-stems." In Multi Nominis Grammaticus: A Festschrift för Alan J. Nussbaum, ed. Adam I. Cooper, Jeremy Rau, and Michael Weiss, 175–84. Ann Arbor: Beech Stave.
- Otten, Heinrich. 1958. Hethitische Totenrituale. Berlin: Akademie-Verlag.
- Nussbaum, Alan J. 1986. Head and Horn in Indo-European. Berlin: de Gruyter.
- Petersen, Walter. 1933. "Hittite and Tocharian." Language 9:12-34.
- Pinault, Georges-Jean. 2002 [2006]. "Sur Pévolution phonétique tsk > tk en tokharien commun." Munchener Studien zur Spruchwissenschaft 62:103-56.

- Puhvel, Jaan. 1972. ""Bartholomae's Law" in Hutite." Zeitschrift für vergleichende Sprachförschung 86:111–5.
- Ricken, Elisabeth. 2005. "Zur Wiedergabe von hethitisch /o/." In Spruchkontakt und Spruchwandel: Akten der XI. Fachtagung der Indogermanschen Gesellschaft, ed. Gerhard Meiser and Olav Hackstein, 537–49. Wiesbaden. Reichert.
- 2012. "Sckundare denominale u-Stamme im Hethitischen." In Multi Nominis Grammaticus: A Festschrift for Alan J. Nussbaum, ed. Adam I. Cooper, Jeremy Rau, and Michael Weiss, 274–81. Ann Arbor: Beech Stave.
- Schindler, Jochem. 1967. "Das idg. Wort für 'Erde' und die dentalen Spiranten." Die Sprache 13:191–205.
- 1977. "A thorny problem." Die Sprache 21:25-35.
- 1980. "Zur Herkunft der altindischen ewi-Bildungen." In Lautgeschiebte und Etymologie: Akten der VI. Fachtagung der Indogermanischen Gesellschaft, ed. Manfred Mavrhofer. 186–01. Wiesbaden: Recichert.
- Shatskov, Andrej. 2006. "Some remarks on Hittite infix verbs of the type harni(n)k-." Altorientalische Forschungen 33:286–92.
- Steer, Thomas. 2013. "Uridg. *dh(e)jf*öm 'Erde' und *gh(e)jöm 'Winter': Eine kurze Revision der Stammbildung." Indogermanssche Forschungen 118:55–92.
- Wackernagel, Jacob. 1957. Altindische Grammatik. Vol. 1: Lautlehre. 2nd ed. Görtingen: Vandenhoeck & Ruprecht.
- Weeks, David M. 1981. "Hittite vocabulary: An Anatolian appendix to Buck's Dictionary of Selected Synonyms in the Principal Indo-European Languages (1949)." Ph.D. diss., University of California, Los Angeles.
- Widmer, Paul. 2005 [2007]. "Der altindische vrkf-Typus und hethitisch nakki": Der indogermanische Instrumental zwischen Syntax und Morphologic." Die Spruche 4:1190-208.

Phonological Rules and Dialect Geography in Ancient Greek

DON RINGE

The unique combination of imagination and rigor that characterizes Professor Jamson's work has been an inspiration to many scholars. I venture to offer this somewhat speculative paper as a small token of appreciation.

In Ringe and Eska 2013:115-8 I proposed a solution to a problem noted in Lejeune 1973:27-8 and Sommerstein 1973:21-3, as follows. The treatment of noncoronal stops before nasals in Attic Greek is not entirely uniform. On the one hand, all bilabials become [m] before /m/, and there are no surface exceptions even in isolated words, e.g.:

```
λελειμμένος 'left behind', βλέμμα 'glance' (/p + m/)
κεκαλιμμένος 'covered', τοξιμός 'beaten path' (/b + m/)
σεγραμμένος 'written', άλειμμα 'ointment' (/p<sup>h</sup> + m/)
αμιως 'sand' (synchronically underived: cf. Lat. sabulum 'coarse sand')
```

Voxed stops also become nasals before both underlying nasals, and again there are no surface exceptions (see above for $\hbar b + m/$, which meets the conditions for both rules):

```
retropulse's 'arranged', where \gamma_{H} = [mn] (/g + m/)^2 did\lambda \Delta n \mu_{H} [mn] changeling' (/g + m/) ourse's treverend, holy' (/b + m/) dryo's [nn] 'holy' (/g + n/) dryo's [nn] 'holy' (/g + n/) dryo's [nn] 'amb' (< "abmo, synchronically underrved; cf. Lat. agnus <math>< "b_{s,g} m / m / s.
```

On the other hand, voiceless stops, aspirated or not, remain unchanged before /n/:

τέκυον 'child' τερπνός 'pleasant' σπερχνός 'hasty' στρυφνός 'astringent'

But the voiceless and voiceless aspirated velar stops exhibit a double development before /m/ (only). In derived environments, both in inflection and in derivation, they undergo nasal assimilation to \(\gamma\) fil:

```
δεδειγμένος 'shown' (/k + m/)
δέδεγμωι 'I have received' (/k<sup>h</sup> + m/)
δόγμω 'opinion, (legislative) decree' (/k + m/)
πρωγμός 'confusion, turmoil' (/k<sup>h</sup> + m/)
```

In underived words and fossilized derivatives, however, the stops undergo no change:

```
àνωή '(highest) point'
ἄνμων 'anvil'
λουμάν 'το winnow (grain)'
δοχωή 'span, handsbreadth'
αλχωή 'spear-point'
λουμάν 'spear hick the tonguc' (said of snakes)
```

In one or two cases the stop before /m/i is the result of a late sound change; for instance, α_{ijjkl} reflects " α_{ilkl} mid (cf. Myc. acc., pl. ai-ka-sa-ma). But in others words the stop plus /m/i sequence is inherited; note especially that δ_{ijkl} and the inherited from Proto-Indo-European with no change in its stop (cf. Ved. dima, Lith. akma, both 'stone'). Thus surface-based paradigmatic leveling from regular sound-change outcomes, which can explain the replacement of coronal stop plus /m/i by σ_{ik} in the same morphological environments (Garrett and Blevins 2009;329–32), is not an available explanation in this case:

The near distribution of outcomes of underlying /km/ and /k^hm/ cannot be explained on the assumption that the nasal assimilation of voiceless velar stops to following /m/ was a regular sound change—not even if the sound change was arrested before going to completion, since in that case there should be at least a few exceptions to the pattern. However, application only in derived environments is a knowbehavior of phonological rules. We are forced to conclude that the nasal assimilation of /km/ and /k^hm/ resulted from the modification of an existing phonological rule, and the only suitable rule is the rule insalizing bilabial stops before /m/ (which was the result of a regular sound change).

These changes had a major impact on the inflection of the mediopassive perfect

¹I am grateful to Michael Weiss for comments on an earlier draft of this paper ²Snirrevant 1940 64-5, Allen 1987:35-9.

⁴I am grateful to Dieter Gunkel for the reference.

and pluperfect. Since the voicing and aspiration of stops were already neutralized before the and singular endings beginning with $\neg \sigma$, he and singular endings beginning with $\neg \sigma$, and the numerous endings beginning with $\neg \sigma$, and the numerous endings beginning with $\neg \sigma$, neutralization before the $\neg \sigma$ of the first person endings and the participal suffix rendered the inflection of stems in blabial stops uniform and the inflection of stems in valar stops likewise uniform, except for the 3rd plural forms ending in (perfect) $\neg \sigma \tau u$, (pupperfect) $\neg \sigma \tau u$. But a different change rendered those forms uniform as well: throughout the Attic-Ionic dialect group, stem-final $\neg \tau u$ and $\neg \tau u$ were replaced by $\neg \tau u$, and stem-final $\neg \tau u$ and $\neg \tau u$ were replaced by $\neg \tau u$, in the 3rd plural. Attested Attic examples are fairly few, but since exactly the same development occurred in Ionic, the number of quotable forms is substantial, e.g.:

```
reroddoras' they are inclined' Thgn. 42 (stem in /-p-/) alth/garo' they were wrapped' Hdt. 7.50 (stem in /-k-/)<sup>4</sup> rerofdoras' they exhibit bruises' Hdt. 2.933 (stem in /-b-/) abvarrerigaras' they are deployed against' X. Am. 4.8.5 (stem in /-g-/) abvarrerigaras' they are enrolled' IG: 1.3.4.50 (Attic, stem in /-p<sup>2</sup>-/) rererigaras' they have been made'. II 3.123 (Stem in /4<sup>k</sup>-/)
```

Of course rendering the inflection of mediopassive perfects uniform cannot have been the purpor of these changes; grammatical changes begin as learner errors, and learner are not motivated to make errors. But whichever of the two changes occurred first decreased the amount of information about underlying forms available to native learners and thus made the other change more likely. Naturally we would like to know which change occurred first; but since the two changes do not interact directly, our only evidence is distributional, as follows.

Unlike the aspiration of root-final stops before 3rd plural endings, the rules nasalizing noncoronal stops before /m/ are not uniform in the Artic-lonic dialect area. A late 6th-century inscription from Miletos exhibits no assimilation of aspirated stops before /m/:

```
διφάσια [μ]δλίχματα : Νο γυλλοὶ ἐστεθμ|ένοι : DGE 725.2-3 (= Schwyzer 1923:352)
"two-fold propitiations; two blocks [cult statues?] garlanded"
```

Especially striking is the fact that, though the first bilabial of "estept menor has undergone dissimilation in place of articulation, its aspiration remains untouched. Our text of Homer preserves at least one productively derived noun with the same retention of the voiceless aspirate before /m/, namely ĕzuara 'stays, props' (ĕzeu 'hold'). A sthcentury inscription from Chios presents us with a more surprising form:

```
καὶ τὸ πρόχιμα προσκηροϊσσύντων | ὅτι ἄμι μέλλη|ι πρήξεσθαι DGE 688.B 16–20 (= Schwyzer 1921;338)
```

"And let them give notice in addition of the penalty which is going to be exacted."5

Here the voiced velar stop of mony 'make, do, accomplish, carry out' has apparently been replaced by the corresponding aspirate. The same form is attested at Ephesos (Bechtel 1924:123) and probably occurred in the original text of Herodotus, since two ancient quotations preserve it (Schulze 1926:217-20), though it has been eliminated from our text by Atticization. The usual explanation is that this is actually a noun in *-smen- rather than the usual *-men- (Bechtel 1924:123-4, Frisk 1960-72 s.v. πράσσω), but that is in fact very unlikely; the word is common throughout the Greek world from the 5th century onwards, and the suffix is otherwise just *-men-. Nor is *-ksm- a plausible source for the consonant cluster in the Homeric participle araquevos 'sharpened; pointed, tipped'; participles do not end in "*-sméno-," and a stem *akaks- would be a morphological monstrosity.6 It seems clear that East Ionic originally had an alternative phonological rule, of unclear origin, but not reflecting a regular sound change, that replaced voiceless and voiced velar stops by the corresponding aspirate before /m/, Later East Ionic inscriptions show the Attic rule instead; that is almost certainly the result of Artic influence,7 and it is possible that the nasalizing rule spread through the Attic-Ionic dialect continuum in the way familiar from modern sociolinguistic work.

But the East Ionic rule is part of a larger pattern. Lesbian, which shares an innovation or two with the Ionic of Chios, its neighbor to the south, aspirates volar stops not only before /m/ but also before /m/. There are several examples from the poetry of Sappho and Alcaeus, *e.g.:

```
ἄχματ' 'cargo' Alc. 208(a).14 (/g + m/)
ομμεμείχμενον 'mingled' Sapph. 2.15 (/g + m/)
```

^{*}Herodotus provides the only attested exceptions, namely discourse they have come, plup, discourse. They are certainly unnovations, Wackernaged (1916:14 n. 1) suggests "aphilib" and (the expected form) > "aphilians by a kind of progressive Grassman's Law, followed by adjustment of the shape of the preverb (concertably by some ansient editor).

[&]quot;This seems to fit the context better than 'the case which is going to be prosecuted' (so Buck 1951/189); the preceding clauses say that the heralds are to announce the indirement by the Fifteen and the day of the

[&]quot;The adjective digit is too problematic to justify posting a pre-Grock roots" #ab-, both because ##stem adjectives with #grade routs are not normal and because there is no other clear evidence for a "root extension" %- of "byde" sharp" in Grock or any other language. For an alternative expiniology see Bookss 2010 a v. with

⁷As is well known, our texts of Homer and Herodotus have also been extensively Atticraed, making reconstruction of the original situation in many details, including this one, infeasible except in the most general terms.

^{*}Sappho and Aleases are cited with the numbering of Voigt 1971. Not surprisingly, there are also some forms with -pp-; they can reflect Atticization of the text, since no copy of any fragment products the Alexan drian grammanas.

προδεδείχμενον 'foreshown' $^{\circ}$ Alc. 75.4 (/k + m/) τετυχμέναις 'created' Alc. 343 (/k $^{\circ}$ + m/) δείχνωτε ['showing' Alc. 73.13 (/k + n/) δνεμείχουτο 'were mingled' Sapph. 44.30

Contrast Chian Ionic ἀποδοινώντες 'specifying' DGE 688. B.13-4 = Schwyzer 1923;338. As in Attic-Ionic, underwed examples do not undergo the rule: cf. ὅσος 'fear' Alc. 6.9, πόσο 'rapidly, with high frequency' Sapph. 1.11, ὅγνῶ 'holy' Sapph. 17.13. Moreover, like archaic East Ionic, Lesbian also lacks the rule nasalizing blabials before /m/, to judge from dat. pl. ὁππάτεσοι 'cyes' Sapph. 3.1.11 (%p-max-, Hamm 1938:21).

What conclusions can be drawn from this pattern of facts? Most obviously, the dialects of the Asia Minor seaboard which lack the rule nasalizing velars before /m/ also lack the rule nasalizing bilabials before /m/; that is consistent with the hypothesis that the former resulted from generalization of the latter in Attic. We might also venture the suggestion that the rule aspirating velar stops before /m/ is an archaism, since the dialects of Asia Minor seem to preserve an archaism in imperative spl. -vrw in a similar, though admittedly not identical, geographical pattern (Ringe 1997); the Lesbian extension of the rule to position before /m/ would presumably be an innovation. In addition, it would be reasonable to posit some sort of historical relationship between the rule aspirating velars before /m/ and the rule aspirating bilabials and velars before and plural endings, since both rules operated pre-eminently in the mediopassive perfece, 10 unfortunately the details of that relationship remain obscure for lack of further evidence.

It would therefore be possible to construct a historical scenario like the following:

- generalization of root-final aspirates before 3pl, endings throughout Attic-Ionic;
- rb) replacement of velars, and possibly also bilabials, with the corresponding aspirates before /m/ in productive categories, also throughout Attic-Ionic, (ta) and (tb) being historically connected in some fashion or other:
- bilabials > m before /m/ in Artic (regular sound change, subsequent to both parts of (1));
- 3) generalization of the rule resulting from (2) to velars in Attic;
- spread of Attic rules (2) and (3) throughout Attic-Ionic.

However, inferences from the distribution of changes are not watertight; there are too many known examples of changes spreading across well-established dialect boundaries. Two relevant examples are the appearance as ττ not only in Artic and West

Ionic, but also in Boeotian, of the palatalization product which appears as σσ in most other dialects, and the application of the "third compensatory lengthening" in East Ionic and the eastern Doric dialects, but not in other Ionic or Doric dialects. In both cases one or more changes must have spread across dialect boundaries, regardless of the order in which the changes occurred.

We must therefore reckon with the possibility of an alternative scenario:

- ra) bilabials > m before /m/ in Artic (regular sound change);
- replacement of velars, and possibly also bilabials, with the corresponding aspirates before /m/ in productive categories in East Ionic (but not in Attic);
- generalization of root-final aspirates before spl. endings, possibly related to (tb), and if so, beginning in East Ionic and spreading throughout the Artic-Ionic area:
- generalization of the rule resulting from (1a) to velars in Attic;
- spread of Attic rules (12) and (2) throughout Attic-Ionic.

In this scenario the chronological relations among (1a) through (1c) are not certainly

Is there any reason to prefer one scenario to the other? There might be, but unfortunately the evidence is negative. If the first scenario were correct, all instances of bilabial + /m/ in Artic would necessarily have become $\mu_{\rm M}$ by regular sound change, but not all instances of velar + /m/ in productive categories need have become $\gamma_{\rm M}$ [nm], since that was not a regular sound change; we might expect to find at least an occasional relic with $z_{\rm M}$ by the older rule. I do not know of any. But that argument is considerably weakened by several considerations: (i) the new rule was fully productive, so it might have eliminated all older outcomes in any case; (a) it is not always obvious which derivatives are fossilized; and (3) for derivatives we must reckon with the possibility of suffixes beginning with "sm= in at least some cases. An example that illustrates the difficulties outlined in (2) and (3) is Art. $\delta_{\rm OSQM}$ (drachma' (vs. $\delta_{\rm OSMM}$) "trandful"—and nore further that it is difficult to determine which velar stop this root originally ended in).

In sum, we must be satisfied with the more limited conclusion that the rule nasalizing bilabials before /m/ was extended to apply also to velars, and that both rules were originally alien to the Ionic and Aeolic dialects of the Asia Minor scaboard.

References

Allen, W. Sidney. 1987. Vax Graeca, 3rd ed. Cambridge, UK: Cambridge University Press.

Bechtel, Friedrich. 1924. Die griechtschen Dutlekte. Vol. 3, Der ionische Dutlekt. Berlin: Weidmann.

⁹Campbell's translation (1982.75)

¹⁰ And in the athematic present, to the extent that examples survived: cf. Hom. дедаты 'they await, they receive' Such эр!, forms must also be the ultimate source of the unetymological -g- of Att. деденбы.

- Beekes, Robert S. P. 2010. Etymological Dictionary of Greek. Leiden: Brill.
- Buck, C. D. 1955. The Greek Dialects. Chicago: University of Chicago Press.
- Campbell, D. A. 1982. Greek Lyric. Vol. 1, Sappho and Alcaeus. Cambridge, MA: Harvard University Press.
- Frisk, Hjalmar. 1960-72. Griechisches etymologisches Wörterbuch. Heidelberg: Winter.
- Garrett, Andrew, and Juhette Blevins. 2009. "Analogical morphophonology." In The Nature of the Word: Studies in Honor of Paul Kiparsky, ed. Kristin Hanson and Sharon Inkelas, 527–45. Cambridge, MA: MIT Press.
- Hamm, Eva-Maria. 1958. Grammatik zu Sappho und Alkaios. 2nd ed. Berlin: Akademie Verlag.
- Lejeune, Michel. 1972. Phonétique historique du mycénien et du grec ancien. Paris: Klincksieck.
- Ringe, Don. 1997. "On the origin of spl. imperative -vrov." In Fastebrift for Eric Hamp, ed. Douglas Q. Adams, 2.129-43. Washington, DC: Institute for the Study of Man. Runge, Don, and Joseph F. Eska. 2013. Historical Linguistics: Toward a Twenty-first Century Reintegration. Cambridge, UK: Cambridge University Press.
- Schulze, Wilhelm. 1926. "Grammatisches aus der Herodor-Überlieferung." In Festschrift für Universitäts-Professor-Hofpat Dr. Paul Krestehner, 217–23. Vienna: Deutscher Verlag für Jugend und Volk. [= Kleine Schriften (Göttingen: Vandenhoeck & Ruprecht, 1933), 409–14.]
- Schwyzer, Eduard. 1923. Dialectorum Graecarum exempla epigraphica posiona. Leipzig: Hirzel. [= DGE.]
- Sommerstein, Alan. 1973. The Sound Pattern of Ancient Greek. Oxford: Blackwell.
- Sturtevant, Edgar. 1940. The Pronunciation of Greek and Latin. Philadelphia: Linguistic Society of America.
- Voigt, Eva-Maria. 1971. Sappho et Alcaeus: Fragmenta. Amsterdam: Athenaeum–Polak & Van Gennep.
- Wackernagel, Jacob. 1916. Spruchliche Untersuchungen zu Homer. Gottingen: Vandenhoeck & Ruprecht.

A Tough-talking Nun and Women's Language in a Buddhist Monastic Code

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One of the many topics in the study of women in early India that Stephanic Jamison has opened up for discussion is the question of women's language. She has suggested that "the Rig-wedic poets use certain linguistic features as a short-hand means to characterize the speaker as a woman" and identified the secondary -ka-suffix and the perfect optative as likely suspects for such markers. She has done so not because either of these features "is at all exclusive to 'women's language'" but because both show "unusual clustering" in contexts involving women speaking. Such speech, moreover, can be—as Stephanne puts it in an interesting double adverbal construction—"fairly spectacularly vulgar." Women's speech in the Vada can sometimes be "inideed quite bold woman's speech" (Iamison 2008:151, 157, 188; see also Jamison 2009:322—8).

Given all of this, it seemed only fitting here to explore an issue of women's larguage in a very different body of Indian material that I know a little more about. My discussion in fact will have to be limited to a single canonical Buddhist Monastic Code onginally written or compiled in Sanskrit, in North India, in the early centuries of the Common Era. This Code is called the Malianarvatinidae-aniesy and—to judge by its Tiberan translation—must have been enormous, almost 8,000 pages long. Much of it has not been preserved in Sanskrit, so there will have to be a good deal of shifting back and forth between Sanskrit and Tibetan, but the Tiberan translation is a notoriously good one. The discussion will also have to be limited largely to a single term. It to shows an "unusual clustering," and while perhaps not "fairly spectacularly" so, it as well appears to have been vulgar, or at least abusive.

The Sanskiri term in question is an odd compound, putramoritégours. Although he appears to have known very few occurrences of the term, Edgerron (1935;347) does register it, defining it as "bastard (as term of abuse)," and he says, "no doubt motiba means basket or the like" and the literal meaning is "child-basket child, i.e. foundling." He also points out, however, that muta, motaba, etc. seem first to refer to "a large measure of grain."

Although a recent note by Karashima (2007:86-8) does not go much beyond Edgerton, that the compound does mean 'bastard'—in virtually all our senses of the term—does seem to be supported by a number of factors. Edgerton cites nal phrug as a Tibetan translation of putrumonkaputra, and even in modern Tibetan nal phrug refers to "the offspring of a sexually mappropriate relationship, illegitimate child" (Gold-toi 2001:63). Indeed, for much earlier periods nal phrug is an attested translation of Skt järnjäta ('bastard, child by a paramour'), bandhula ('bastard'), and pärussruineya ('a son by another's wife') (Negi 1993-2005:2850), and these are only the attestations found in the standard Tibetan-Sanskrit dictionaries. In the Malacarnistividae-vinaya itself, in the section called the Civaranistis, nal phrug translates both putramonkaputra, as Edgerton noted, and also nätaputra, which he noted only under that term. Vätaputra, literally 'son of the wind', usually means 'rogue' or 'swindler', but Edgerton, presumably on the basis of the Tibetan, takes it too as a word for 'bastard'.

Edgerron does not cire a Tibetan equivalent for the second of the two occurrences of putramorikáputra that he lists, but even though it is not perfectly straightforward, it seems virtually certain that putramorikáputra here is not translated by nal phrug but by the collocation hu sant mo? bu: bu zan mo? bu, however, is at first sight also problematic in several ways. This collocation is not recorded in any of our standard dictionaries, and even what appears to be its main component—bu zan mo—seems to be recorded only in the modern Bad typu tshig makead chen mo. There bu zan mo is listed as "old" or "ancient" and said to be the same as mbba' 'yro ma and prin mo is listed as "old" or "ancient" and said to be the same as mbba' 'yro ma and prin mo (Zhang Yisun 1983;183). The first of these is an attested translation of dikint ("a female imp... feeding on human flesh"), the second of rakeast (an evil female demon), so bu zan mo would denote a female demon, and the seeming etymological meaning of bu zan mo would appear to support this: the Tiberan que Tibean would seem to mean 'a female eater of children', and this would conform to the eating habits of any number of Indian female demons. A bu zan mo'i bu would be then 'a child (son) of an eater of children (sons)—" as on of a wice," if you will.

The problem here is that although to call someone "a son of a witch" was almost certainly not a compliment, still that did not mean he was a "bastard", which is what all our parallel terms—jārnpāta, bandhula, ctc.—point to. Moreover, although there are any number of Sanskrit expressions for 'son of a whore' or 'son of a slave girl' used as terms of abuse, 'son of adhnir' or 'son of rakpars' do not seem to occur. The solution here—if it can be called such—would be to see that bu zan mo' bu is not so much a translation of purnamotikaputra as a calque of it, and the fact that the resultant form makes good Tibetan cultural sense is simply a happy linguistic accident. Notice that the Tibetan collocation reproduces exactly the odd structure of the San-

skrit: both begin and end with the word son (putnr - bw). In both the middle term is an obscure word connected with grain or what is eaten that probably developed in the direction of 'measure, basker'. Approached from this angle, given the exact structural parallel between the Tibetan bu san mo'i bu and the Sanskrit putnramotikalpurn and the patrented repetition of the term 'son', it is hard to imagine that the former could be translating anything else but the latter. It could certainly not be translating any of the other expressions that nal plong does: järnjätn, bandbula, natapurn. This consideration at least has determined here the sample to be used.

Tibetan nat phrag at least once certainly translates Skt. patramotitāputra, but it also far more commonly seems to translate vātaputra and a number of other terms, so in the absence of a Sanskrit text it would be impossible to determine with any certainty what nat phrag was translating in any given instance. But if—as seems highly likely—the second attested Tibetan translation, bu san mo'i bu, could only be translating putramotitāputra, then whenever this Tibetan collocation occurred, one could be far more certain that the original text it was translating had putramotitāputra, and not anything else. This will be the working hypothesis in what follows, but it is also important to note that even if this hypothesis turns out to be unsustainable, it is virually certain that Tibetan bu zan mo'i bu is translating a Sanskrit term of abuse that meant "bastard", or something like 'son of a bitch". The significance of this for us is, as we will see, that in our Monastic Code bu san mo'i bu is a term used almost exclusively by women.

Edgerton cites only two occurrences of Skt. pursmentiapurm, and both of them occur in our Monastic Code, the first in its Cinumuntu, the second in its Bihkuni-bhanga. In both, moreover, it is a woman who uses the term. In the first the woman is a servant or slaw (presyndarsha) who is sent by her mistress to a Buddhist monastery to invite the monks to lunch. When she gets there, she sees the monks bathing naked and assumes therefore, but wrongly, that they are not Buddhists but Âjivikas, members of a competing religious group who practice nudity. She thinks to herself: "Surely the Noble Ones haveleft and this monastery has been sized by those (shameless) bastards (pursmotishpurm), the Âjivikas." She then says exactly this to her mistress, the refined Lady Višākhā, who repeats it to the Buddha—out term then actually occurs here three times, always in the words of a woman (Dutt 1942-384–6).

The second of Edgerron's occurrences, the one from the Bhikuvibhanga, is preserved in Sanskiri in a crudely excerpted version in the Divipinadana. Here the term is used in regard to a monk by the Group-of-Twelve Nuns, a group of nuns who—like their male counterparts, the Group-of-Six Monks—consistently cause trouble, are

The Sankhri a found now at Dispitualania 491,20 (Cowell and Nell 1864), the Tiberan at Birkspanklaning Ja 6963. There is not a weed-for-word correspondence between the Sankhri and Thetan here, but plansmenhighness is the only term in the Sankri passage that Tiberan four asset with occald possibly be translating. Karkhani (2007, 87 n. 1) shows no heastiann about saying "the word plansmenhighness is entered to the sank with which the sank with the sank with the sank with the sank with the sank with the sank with the "Note that all efferences to Tiberan sources will be to the full fast extens of the Deep point reproducted in Bather 1900 and will give the volume terter of that section, folio, and lane numbers. I must here thank Dr. Ryoji Kuhinno, and his "boddy" the computer, for help with some of the

¹In facx κ could almost certainly be shown but not here: that nat Johng and nt close variant nal gow normally and overwhelmingly are translating nitingtime, not purmissionlingtime, and that nitingtime / not Johng, not got not overwhelmingly occur in litts—instally of three—of disreptitable types, not as a direct term of abuse. A typical example can be seen at Communities 96.16 (Dutt 1942): nitin-instalpurm-distribute a distance and little distributed in 980 nits. (36 700-6.

arrogant and aggressive, but are also learned and know the rules, exploiting them to their advantage. When they hear that what they think is a really stupid morak has been assigned to instruct the runs, they are incensed and say that runs will be stuck in the cycle of rebirth for a long time—i.e. they are in deep trouble—when some ignorant bastard (putramotikāputru "Įpairuta") is able to instruct them (Cowell and Neil 1886:1494.20!]

There are no other occurrences of putrumoithõputra in the Cōmamauru, nor, it seems, in the bits and pieces of the Bhūkunithānga preserved in Sanskrit—even cently Karashima (2007;86-8) cites only Edgerton's occurrences—but there are at least four more occurrences of bu zam mo? bu in the Tibetan translation of that section of our Code, and in the one case where we have a corresponding Sanskrit rext it is clear that bu zam mo? bu translates putrumoithāputru. In all these cases a woman is again the speaker. In one instance a nasty stepmother twice refers to her stepson who is a learned Buddhist monk, and whom she blames for her husband's death, as "that bastard who knows the Three Baskets [i.e. the Buddhist canon]" (bu zam mo? bu side mod gium dang ldan pa sie; Ca 13ab.t, 6). In another case it is another slave gid (pruspadariab) who uses the term, calling her mistress—who has ordered her to find her a man for illicit sex—a bastard (bu zam mo? in mo—marked as feminine; Nya 64a.6). In a final instance in the Bhikuwibhangu once again it is a woman who uses the term (Nya 167b.t).

Unless I am mistaken, these are the only occurrences of bu zan mo's bu in the Bhikupibhanga, and there appear to be none in the other wasts sections. There are, however, at least two in the Untaragramtha (Mustaka). In both these instances—which occur in the same long narrative—the same devour Buddhist layman named Jyotiska refers to Pürana, another religious competitor of the Buddhists, as a "bastard" or bu zan mo'i bu (Pa 169h.3, 170a.3). These instances are obviously like those in the Civaravantu where the slave girl calls Ājvikas putramorhisputrus, and name-calling among opponents has in India—as elsewhere—a distinguished history. The other hing noticeable here is that these are the only instances in which our term is used by a man. In every one of the eight other instances that we have seen so far, putramorhisaputrus to bu zan mo'i bu is used by a woman. Even this much would seem to establish an unusual clustering, and that clustering becomes even more pronounced when the last two sections of our Code in which bu zan mo'i bu occurs are taken into account.

The Kudrakananu is a very large section filling two entire volumes in the Tibetan translation. In the first of these there appear to be only two occurrences of our term, both used by the same woman in the same long narrative. They are, however, interesting because it is not quite clear if bu sam mo's bu mo—the term is being applied to a female and agam is so marked—is being used here as a term of abuse or if it simply describes the girl's questionable parentage. The term is used both times by King Prasenajit's mother in regard to his second wrife. She is described in the account as both a slave (bran mo—dasi) and a servant or slave girl (mngag gabug brad pa). The

narrator tells us who her father was, but it is not clear if the queen mother knows this, and it is quite possible that she simply assumed that since the girl was a slave, she would have been a bastard. Needless to say, the queen was not pleased at her son's choice.

The second volume of the Ksudrakavastu is richer still in occurrences. It contains seven, all but one in women's speech, and even the exception may refer to women. All seven, moreover, occur in a subsection of this volume which-although not formally marked as such - is entirely devoted to nuns and runs to almost two hundred pages. The only comparable density of occurrences, interestingly enough, is found in the only other section of our Code devoted to nuns, the Bhiksunīvibhanga. There too there are seven occurrences, every one in women's speech. What this means, then, is that there are as many occurrences of bu zan mo's bu in the two relatively short sections of our Code devoted to nuns as there are in the rest of it combined. This is a different form of the same kind of clustering already noted; not only do occurrences of this term of abuse everywhere cluster in women's speech, but they also are found far more frequently in those parts of our Code devoted to nuns than anywhere else. And there is, as we will shortly see, one further clustering: almost every one of the fourteen occurrences in the nun's section of the Ksudrakavastu and the Bhiksunīvibhanga is found in the speech of a single nun. That nun is named Sthülananda, or "Fat Nanda," but as we will see, she is not so much an individual as a composite type made up, it seems, of all of a monk's worst nightmares. At the very least "she" is a complex maleauthored literary fiction that can be read in a variety of ways, an integral part of which is, it seems, the kind of language that she is made to use.

That Sthülananda represents a type and stands for all women and for the problems inherent in allowing them to become members of the Buddhist Order, is all but explicitly stated not once, but four times, in a series of little sketches of encounters berween Far Nandā and the severe and prominent ascetic monk Kāśyapa. In one case, for example, just to irritate him she consistently beats him to a house he wants to beg from so that he gets nothing. In another, when Kåśyapa is crossing a narrow, shaky bridge. Far Nandå jumps up and down on it and he falls into the water. In yet another, she sees Kâśyapa walking past a cesspool and throws a brick into it, splattering him with effluent. She just as consistently refers to him as a dope or fool or dolt (glen pa = midha). The notion that women will behave badly is, of course, not particularly Buddhist, and Sthulananda's behavior could easily be taken as an illustration of Manu's general pronouncement that behavior unworthy of a civilized person, "malice, and bad conduct" were assigned to women by the creator (...anāryatām drohabhāvam kucaryām ca strībhyo manur akalpayat; Olivelle 2005:IX.17). Kaśyapa's response-the same in every instance-comes from this same world. He says to her: "Sister, this is not your fault, but the Venerable Ananda's fault; it is the fault of his having got authorized the entrance of women, who engage in serious faults, into the well-spoken Dharma and Discipline [i.e. the Buddhist Order] ... " (sring mo khyod kyis ni ma nyes

by is the dang Idan pa. kun Aga? bes styres te / nyes pa shom po spyred pair bud med dag legs par binda pair closs 'lad bin and bu physing abing bryone par releage mas dge sinneg mair drigue por grange but byas pan spies 19, 10 13 160.2, 140.01, 140.01, 143.01, 143.01, 163.01 would have been well known, the Venerable Ananda, who is fingered here as the real culprit, was the monk who overcame the Buddha's resistance and convinced Him to allow women into the Order, but the important point is that in his response Edsipapa does not react to Sthilanandà as an individual but as a representative of a type of what—from the male author's point of view—can be expected of women in the religious life. Fat Nandà's fault is simply that she is a woman and behaves like one.

But if Sthülanandä is a type or stereotype, she is also a complex or multifaceted one. Her behavior may be bad or unworthy of an Arya, but she is consistently presented as learned, and so are others of her type. Sthülananda, for example, is a member and the most prominent of the Group-of-Twelve Nuns whom we have already met. When they call the monk assigned to instruct the nuns "an ignorant bastard," that characterization is coupled with the assertion-an assertion that is never denied-that "the nuns are knowers of the Three Baskets [i.e. all of Buddhist canonical literature], teachers of the Dharma, of skillful and untrammeled eloquence" (bhikunyas tripitā dharmakathikā yuktamuktapratibhānāh; Cowell and Neil 1886:493.14). This is no small claim-and again never denied-and puts these nuns far ahead of your average monk, who in this Code at least is presented often as knowing very little (see Schopen 2014:47-65). Elsewhere the same assertion is made of Sthülananda, and she is more specifically described as knowing the whole of a long susra, the Abhinishramana-susra, containing the biography of the Buddha (Ja 2272.1). In still other places Sthülananda makes the same claim of herself-and these also are never rejected-and in several of these instances our term of abuse occurs. In one case in the Bhikunīvibhanga when other nuns criticized the monastery that Sthulananda had built because it apparently had no door and windows and resembled a grain elevator, she says back to them: "You (dumb) bastards-ho! Since I am one who knows the Three Baskets, I know how to build a monastery!" (bu zan gyi bu mo dag / kye kho bo sde snod gsum pa yin pas gtsua lag khang ci 'dra bar bresigs par shes so; Ta 222a.4). Similarly in another passage from the Bhiksunivibhanga, one which reveals from another angle Sthülananda's thorough knowledge of the tradition, both elements occur. In this passage Fat Nanda reacts to the fact that other nuns publicly praise a number of the most prominent nuns, starting with Mahaprajapati, the Buddha's stepmother and essentially the founder of the women's Order, but not her:

The nuns declared the praises of Mahāprajāpatī in the houses of brahmins and householders, saying: "Mahāprajāpatī, possessed of merir, the mother of the Buddha, was declared by the Blessed One the foremost among the Royal Female Elders." Utpalavarpā too was declared the foremost of those possessed of supernatural powers. Kṛśagautamī also was declared the foremost of those who preserve the Monastic Code. Dharmadinnā too was declared the foremost of those who explain the sūsras."

When Schildanandå heard those words she scoffed, saying; "Hah, you (srupid) bastards—when this Mahāprajāpatī is one who is self-inutiated and does not even have a preceptor and a teacher, this Utpalavarņā is a whore, and this Kṛśagauramī is an eater of children, still you declare their praises?!"

The other nuns said: "Was not the Noble One, perhaps, hurt by envy of their praises?"

But Sthålanandå said: "When I am a renouncer from the Buddha's own clan and one who knows the Three Baskets, how could the declaration of praises of those who are unworthy to be praised not be hurtful to me, when nothing is said of me!" (Ta 2954.4)

Like her male counterparts, the Group-of-Six Monks, who—however devious their motives—are almost always correct in their assertions, Sthülanandā here is right on all counts and is presented as exceptionally well-informed in terms of traditional Bud-dhist hagiography. Mahāprajāparī according to her traditional biography did lack a preceptor and teacher, and the validity of her ordination and even her status as a nun were therefore technically open to question. Utpalavarpā was likewise a prostiture before she entered the order, and Kṛāgautamī had indeed—though unwilingly—eaten her son. But, although correct and clearly learned, Schülanandā is also presented as talking like a slave girl or nasty stepmother. She appears here as aggressive and herself nasty, but also easily hurr and very human. She may act like a typical woman (as understood by an Indian man) but is acknowledged to be well-informed and learned, which a typical Indian woman would not have been (by that same man). It nothing else, then, the complex character of Far Nandā is starting to come more clearly into ficus.

In these first two cases in the Bhikumphibhanga where the nun Sthülanandā calls someone a bastard, she calls other women—fellow nuns—that, and she does so agan in the same section when some other nuns suggest that she teaches the Dharma only out of greed and for material possessions (Ta 296b.7). More commonly, however, in both this section and in the Knudrukawastu the recipient of this term of abuse spoken by Far Nandā is a man, and here another aspect of her complex character becomes visible.

If in the sketches of the interaction between Sthülanandā and the monk Kāśyapa already mentioned she can be read as arrogant and aggressive, or as not particularly impressed with male religious authority, these other passages leave the impression

Ignas brian ma'i 1970al mo. This is the femmine form of the male monastic title scheme réjenyals, which is

applied to monks of at least twenty years' standing. See Schopen 2000:140 and 2014:48-9. Neither form is at all common.

that this did not apply just to male religious figures, but extended to all men. And an integral part of this impression is how she—in one case the whole Group of Twelve—deploys our term of abuse. Subulanadis calls a goldsmith, who accosts her about an earring she had wheedled out of his wife, a bastard (Ta 182b.7). She does the same to a man who gave her money because he thought she was a prostitute and then wanted it back (Ta 313a.6).* Even more striking is the following exchange between the young nuns in the convent and Schülananda:

"But where are you going, Noble Cone?"
"Today I am going on the road to the six great cities."
"But who is going with you as your attending menial?" they said.
"I am going alone," Schülanandä said.
"And if some were to deprive you of your virtue what will you do?"
She said: "If those bastards even touch me, I'll just knock their teeth
out with my black bow!" (gal te bu sam mo? bu dag nga la rig tu 'ong na
ngas llmnap beat nag po so beag in sad mod see smars ps: I'a 12041.

A few pages later it is the Group of Twelve as a whole that says to some women threatened by soldiers: "Sisters, if those bastards come, you can be sure we will knock their teeth out with our black bowls!" (bhe ms no gal to bu zan ma's bu rnams 'ongs na lhung beed nag pos so guag gis rton eig; Ta 122b.1). These nuns appear, at the least, as not easily intimidated by men but themselves rather intimidating to them, and although some modern sensibilities might approve of this, it is extremely unlikely that the Buddhist men who wrote and read these texts would have.

The last section of our Monastic Code in which the term bu zen web' bu occurs is the portion of the Knudrukansatu that is concerned with religious women. Here too there are six, possibly seven occurrences. Here too in all but one the term is used by a woman, in fact the same woman, the nun Far Nandā. These instances do not add very much new but confirm and in part extend what has already been noted and can thus serve as a kind of summary of what has been seen. The first occurrence in this part, however, might be particularly unteresting. Here Schülanandä only indirectly calls a group of children "(ittle) bastacks." The text goes like this:

When the Blessed One had said "A nun must wear a sanitary napkin (ms. gab = rajaiaiaia)" and the nuns wore them, then on a later occasion Schülanandä went for alms and her sanitary napkin fell off onto the street. Boys and girls playing on the street saw it and asked her, saying, "What is this. Noble One." Sthulananda, being angry at what they said, said: "Go to a bastard girl and your sister (phu zan mo'i bu mo dang / sring mo'i drung du deng la) and ask! They will show you!" (Da 1642.3)

The construction here suggests that the children's sisters and bastard girls were one and the same, making the children bastards too, and it is very likely that the only children who would be playing on the streets in Classical India were urchins, orphans, and other children of questionable parentage.

But in this section of our Code it is not just children who irritated Sthilanandā (and it is important to note that everywhere our term is used out of some form of irritation); she also at least once, and perhaps twice, is irritated by a lay woman whom she predictably calls a bu zam mo't bu mo (Da 186a.+). In the first case the reading is certain. In the second, which occurs about a line and a half further on, Sthilananda calls the same woman a bu zam ma. This might or might not be a mistake for bu zam ma't bu—the spelling of the latter is not always consistent, as will have been noticed. Or in this second case Schilanandā may also be calling her a 'witch' (ddkint, rakqust). There is also some uncertainty about the reading—but not the irritation—in the one case in this part of our Code in which our term is used by men.

The little text in which our term is put in the mouth of men delivers the rule that monks are not supposed to beat up nuns. It refers back to a long account in the Bhiksuvibhanga in which a traveling troupe of actors while putting on a play based on the life of the Buddha incorporates into it a farcical scene making fun of the Group-of-Six Monks (see Schopen 2014:410-21). Our little text says then that the Group-of-Six blamed the Group-of-Twelve Nuns because they gave the actors monastic bowls and robes so they could dress up as the Group-of-Six Monks. In one printing, the latter say: bu zan mo'i bu de la de dag gis lhung bzed dang chos gos dag ma byin dang / des bdag cag la dbya bar mi 'gyur ba zhig na (Da 159a.5) "If they [the nuns] had not given bowls and robes to that bastard [the leader of the troupe], he could not have made fun of us." But in another printing the text reads: bu zan ma'i bu de dag gu lhung bzed dang chos gos dag ma byin dang des bdag la 'phya bar mi 'gyur ba zhig na "If those bastards [the nuns] had not given bowls and robes, he [the leader of the troupe] could not, etc." So, while who exactly the bastards are here remains unclear, there is no doubt about the degree of irritation of the monks: after saying what they do, they go and beat poor Sthülananda to a pulp "with slaps and sticks and kicks and fists."

There is also no doubt about Schülanandā's irritation in the last three occurrences of our term. All three are spoken by Schülanandā, and all three are directed at men. In two of these cases these are not just any men but the king's men (gypat po'i skyst but day), government officials on official business; in the third it is rough types who percy on prostitutuse. Two in fact deal with prostitution, but since all three are built on essentially the same narrative frame, the presentation of one will suffice. It is particularly interesting for two reasons. It expresses a view of—in fact a justification for—prostitution that is not commonly me with in Indian sources. It also presents

[&]quot;The cultural confusion of Buddhirt nurs and prostrutes appears to have been an ongoing issue and is added on a number of occasions. In part this could have arisen inteply from the fact that prostruties were the only other unmarized women who beed together in groups in Indian control or cities, some of whom were highly literate. In this instance the potential for confusion was exacerbated because Schillananda was wearing a wig (data brayano), and it was this incident which give rise to the rule—apparently unsique to the Militarvistivastian Birkstem/parameters (T a 11.7)—forbedding must from doing on Suit see also below.

in one place, as it were, the nun Sthulanandā in all her complexity and is an almost perfect example of how this figure can be read in at least two very different ways: as an intended portrait and as an inadvertent one. It deserves to be translated in full:

The setting was in Śrāvastī.

At that time, the nun Sthülanandā in the morning put on her undergarment and robe, took her bow), and set out in Śrāvastī for alms. When she had set out for alms and saw then a prostitute wearing very beautiful clothes and underwear, adorned with very beautiful jewelry, she, seeing her, asked: "Little sister, where did such clothes and jewelry come from?"

The woman said: "Noble One, by engaging in prostitution I get here such things."

Schülanandā thought to herself: "This being a good idea, I should see if it works or not." Thinking about that and keeping it in mind, she went on. Then at another place when she saw a girl with filthy clothes who was poor even in food, who moved along shuffling, but who had a beautiful lovely face, she asked: "Daughter, whose are you?"

She said: "Noble One, whoever gives me food and clothes, I will work for him."

Sthūlanandā said: "If that is so, daughter, why don't you work as a prostitute?"

The girl, plugging her ears, said: "Noble One, you must not say such a thing! No one in my family has ever done such unlovely things!"

But Schilanandis asid: "Since, daughter, such is an occupation for a woman, even girls of whom it is said 'This is a Kşatriya' have likevise thus become prostirutes—likewise even girls of whom it is said 'This is a Brahmin.' Since many such have come from even the best families, and while indeed a woman is one who fances men, I, if not a renunciant, might have done so, but as a renunciant it is not easy."

Having been beguiled by her, the girl said: "Can I be a prostitute like this, Noble One? Noble One, if I am to be such a prostitute, I will need many things for that: a great house where many men can congregate, clothes, jewelry, unguents, and much food and drink will be needed."

Sthülanandā said: "That being so, daughter, if I provide all of that, and if you give me all the profits, I will provide your food and clothing and so forth."

The girl said: "Since, Noble One, that is fine, I will give you the profit."

When Sthulanandā had a house for her constructed near the nunnery, she gave the girl what she had said, and then later, after bathing her and giving her beautiful clothes and jewelry, she started to work after several days. She being nubile and beautiful made herself into a prostitute. Being overwhelmed by the force of depravity, everybody crowded in there.

When the other prostitutes saw that, they were envious and not sanguine.

Sthülanandä came to have great profits.

After that, at a later time, a great festival occurred in the palace, and since there was a need for much perfume, the king's men brought in all the thing or order to requisition perfumes. They, because of envy, told the king's men about her too: "There is a prostitute of Sthülananda's near the retreat house—you should bring her in too!"

They seized her and brought her in, but she, weeping, said: "Noble Sthülanandā, I have been taken in by the kıng's men!" And Sthülanandā hurriedly rushed there sayıng, "Where have you bastards taken this daughter of mine?"

They said: "Does the Noble One also practice prostitution?"

"Having stepped on the necks of my enemies, I humble them and provide!"

"Does the Noble One have enemies?"

"Since you took my daughter, you yourselves are among my biggest enemies!"

When brahmins and householders saw them quarreling, they saked, "Ho—what is this?" and someone rold them exactly what occurred. They were contempruous, critical, and complained, saying, "These Buddhist ascetics have gone completely up in flames. Ascetic life and purity have gone up in flames. Now even a bald-headed female ascetic provides prosntures."

The monks, having heard what had occurred, asked the Blessed One, and the Blessed One thought: "Schülanandā has done a thing that is not fitting for an ascetic. Therefore a nun should not induce one to be a prostitute." Having so thought, he said: "Monks, the point is this: Schülanandā has done much that is not fitting for an ascetic, and brahmins and householders are contemptious, critical, and complaining. Therefore, a nun should not induce one to be a prostitute. If a ruin induces one to be a prostitute, she comes to be guilty of a gross transgression." (Du 1960—1983.1)!

The rule in Tibetan reads, the har no dge shop mus mod Talong mus pord do me gating, an arch te verb ben—which I have translated as vinduces."—a n weldly street translation of shringsail. This and this slone is forbidden. How carefully that wording might have been chosen is suggested by the different wording mashifted" rule in mother floodfur Code for sums. see shiftener reform group meta probability in transpirationame distinguis. "Si use nomine enterent use promittivé et en vir, elle commer une infraction à la discipline" (Note on 1997-144). What the second forbids the fiet of see not

As already noted, this text contains a remarkable view of prostitution. Schülananda. a learned Buddhist nun, is made to assert, in the face of the girl's strong resistance. that it is a natural occupation for women, that even high-caste women from the best families engage in it, and that she might too if she were not a nun. Her assertion fits with the high status and prestige accorded to at least certain kinds of prostitutes in Classical India and is presented here as entirely persuasive. Moreover, it is only in an account like this with all its detail that the multivalence of the figure of Sthülananda comes entirely into view. Notice that she can be read here in at least two ways. She can be read as scheming, always looking to make a buck, exploitive of the poor, aggressive, without respect for authority, and foul-mouthed. This is almost certainly the reading intended by its male authors since they clearly condemn her and her actions through the mouth of the Buddha. But this same figure can also be read as observant, even entrepreneurial, concerned with the plight of poor women and with providing them a comfortable living not otherwise available, self-confident and not impressed or cowed by male authority, and perfectly capable of addressing male officials with terms of abuse. This second reading is almost as certainly inadvertent, which may make it even more valuable, but it is also important to recognize that while this second reading might very well appeal to modern western feminist sensibilities, it too-almost certainly-would not represent our male authors' view of an ideal woman. Quite the contrary.

One thing here, however, may have come to be clear. It seems certain from what we have seen that a consistent and important aspect of the presentation of Sthülananda's character is her language. She repeatedly uses the term bu zan mo'i bu, which appears more certainly to translate the obscure Sanskrit compound putramotikāputra. But regardless of whether bu zan mo'i bu is translating putramotikāputra, and in spite of the unsettled etymology of the latter, there can be no doubt that this is a strong term of abuse spoken out of irritation, anger, or envy, overwhelmingly by women. It is used by a nasty stepmother twice; by a slave girl; by a disapproving motherin-law, probably, also twice; occasionally by the whole group of disreputable nuns Sthülanandā is associated with; and rarely by the equally disreputable Group-of-Six Monks. It is almost never used by a man. This would appear to be a considerable contrast to what might be found in Classical Indian literature. In the drama entitled Mrcchakatikā, for example, terms of abuse that have been translated as 'bastard' or 'son of a bitch' (känelimätr, däsyaputra, etc.) occur more than two dozen times, but they are never used by women, only rough or disreputable men (the vidusaka or buffoon, the vita or rogue, etc.).6 Only the drunken female "disciple" of the Saivite monk in the Mattaviläsaprahasana talks like Sthülanandå (Lockwood and Bhat 2005:156). This is odd and asks for some explanation: what possible reason could our male authors

^oAcharya 2009 däysaputrs/-putra, 15, 24, 58, 134, 151 (to a woman), 154, 210 (of a woman), 224 (of a woman), 232, etc. känelimatr, 42, 44, 50, 332, 336, etc

have for representing what they repeatedly describe as a very learned nun in this unflattering way?

That there were Buddhist nuns from early on seems clear enough from Aśoka. That there was resistance to them on the part of literate males, however, seems equally clear from how monk authors chose to construct their accounts of the origin of the order of nuns, which are well known. But since it is also certain from early inscriptions that there were learned nuns as well—at least one of whom was, like Sthülanandia, repeatedly said to be one who knows the Three Baskets (Schopen 1907:126-8)—male authors apparently could nor deny that there were such nuns. The most that they could do was to present them in the worst possible light, as aggressive, arrogant, silly perhaps, but never supid. One way of doing that might well have been to have them talk like nasty stepmothers, slave girls, drunken Śaivite disciples, and rough and disreputable men. This at least may be one possible explanation of the figure of Schülanandia. But I cannot end by leaving a suggestion here that our honore talks at all like Shūlanandia, at least not regularly. I end rather with the hope that she might be amused by what some male authors tried again to make of women in Classical India.

References

- Acharya, Diwakar. 2009. The Little Clay Cart by Śūdraka. New York: New York University Press.
- Barber, A. W. 1991. The Tibetan Tripitaka: Taipei Edition. Taipei: SMC Publishing.
 Cowell, Edward B., and Robert A. Neil. 1886. The Divydvadana. A Collection of Early
 Buddbist Legends. Cambridge, UK: Cambridge University Press.
- Durt, Nalinaksha. 1942. Gilgit Manuscripts. Vol. 3, Vinayavastu of the Mülasarvästivädavinayapitaka. Part 2. Srinagar. Calcutta Oriental Press.
- Edgerton, Franklin. 1953. Buddhist Hybrid Sanskrit Grammar and Dictionary. Vol. 2, Dutsonary. New Haven: Yale University Press.
- Goldstein, Melvyn C. 2001. The New Tibetan-English Dictionary of Modern Tibetan. Berkeley: University of California Press.
- Jamison, Stephanie W. 2008. "Women's language in the Rig Veda?" In Indologica: Sbornik statet pampiat T, Ja. Elizarenkovof = Indologica: T. Ya. Elizarenkova Memorial Volume, ed. L. Kulikov and M. Rusanov, 1.153–65. Moscow: Russian State University for the Humanities.
- --- . 2009. "Sociolinguistic remarks on the Indo-Iranian *-ka suffix: A marker of colloquial register." Indo-Iranian Journal 52:311-29.
- Karashima, Scishi. 2007. "Miscellaneous notes on Middle Indic words (2)." Annual Report of the International Research Institute for Advanced Buddhology at Soka University for the Academic Tear 2006 10:81–91.

- Lockwood, Michael, and A. Vishnu Bhat. 2005. Metatheater and Sanikrit Drama. Madras: Tambaram Research Associates.
- Ncgi, J. S. 1993–2005. Bod skad dang legs sbyar gyr tshig mdzod chen mo = Tibetan–Sanskrit Dictionary. Sarnath. Central Institute of Higher Tibetan Studies.
- Nolot, Édith. 1991. Règles de discipline des nonnes bouddhistes. Paris: Collège de France. Olivelle, Patrick. 2005. Manu's Code of Law: A Critical Edition and Translation of the
- Manava-Dharmaśāstra. Oxford: Oxford University Press.

 Schopen, Gregory. 1997. Bones, Stones, and Buddhist Monks: Collected Papers on the Ar-
- chaeology. Epigraphy, and Texts of Monastic Buddhism in India. Honolulu: University of Hawai's Press.
- . 2000. "Hierarchy and housing in a Buddhist monastic code." Buddhist Literature 2:92–196.
- . 2014. Buddhist Nuns, Monks, and Other Worldly Matters: Recent Papers on Monastic Buddhism in India. Honolulu: University of Hawai'i Press.
- Zhang Yisun. 1985. Bod 1934 tshig mdzod chen mo = Zàng Hán Dà Cidián. Beijing: Renmin Chubanshe.

Iranian Cognates of Vedic sásvant- and -sás

NICHOLAS SIMS-WILLIAMS

The meaning and etymology of Ved. śdśwan- 'forming a continuous series, numerous, frequent, all together, each', comparative śdśpa-, adverb śdśwa 'continuousky, again and again', were discussed in detail by Gert Kingenschmitt (1973), who argued that the underlying roor is also to be found in the distributive and multiplicative suffix Ved. -śda, Av. *-აś (attested via the sandhi-form -śs-ca), Gk. --ċda, PlE *-kds. Thus śdśwan-ce. would show the same assimilation of the two sibilanes as the word for 'hare', Ved. śds/-, Khot. saha- < Indo-Iranian *éaud-. According to Klingenschmitt, an Avestan equivalent of śdśwan-, without the assimilation, may be artested by the fem. Grom sayfbait- in Vt. 19.12. Klingenschmitt's interpretation of sayfbaits- as 'forming a continuous series', i.e. 'continuing from generation to generation', seems very plausible in view of its collocation in this passage with amarfants- 'imperistable' and has been accepted in two of the three most recent editions of this Yasht (Pirat 1992:23 and Hintze 1994:119-20). In the latest of the three (Humbach and Ichaporia 1998:89) it is rejected with the statement that "the context does not favor the comparison of sayfbaits' work Ved. śdśwan-, 'a remark which is hardly justifiable.

In passing, I would like to mention the possibility that Sogd. *I* 'all', so far without erymology, might also be cognate with Ved. *idinut.*I Although the Sogdian form clearly cannot derive from "anh-nu(n)t., a derivation from "nuh-n(n)t., thematicized "nuh-nah-n, would be phonologically regular (cf. Sogd. *I* 'vein' < "nuh-nah." and "nuh-nu(n)t. would be precisely parallel to that between pairs such as "nuh-n(n)t- and "nuh-nu(n)t- would be precisely parallel to that between pairs such as "nuh-n(n)t- and "nuh-nu(n)t- or "iff-n(n)t- and "lift-nun(n)t- (for which see Klingenschmitt 1972:100-1 and Sims-Williams 1997:117-212.

As has already been mentioned, an Iranian equivalent of the Ved. suffix six is clearly attested in Av. sixe, a sandhi-form of *so, which is used as a multiplicative suffix in the unique form nanua-sis-as haitauaps "and nine times ten thousand" (Yt. 13,59, Vd. 22.3). In this case too a Sogdian equivalent has been claimed. According to Gershevitch 1962:195, the expression so in 2mp in the marriage contract from Mt. Mug (Nov. 4, VI) may be read *8x8 have sua not translated *at the rate of two for each

³I owe the germ of this idea to a suggestion from Eijro Doyama, but he should not be held responsible for the use I have made of it

ten," i.e. "at 20% (interest)." A minor problem with this interpretation is that one would not expect PIr. "sab to result in Sogd. -su but in "sis (if accented) or "s.g (if unaccented). To meet this objection, which was first raised by Emmerick (1992:334), one could assume that the adverbial neuter ending "s.s. « " num was secondarily added to the inherized "s.s, or alternatively that the final w is merely graphic as it so often is in Sogdian script. However, as I have suggested apud Yakubovich 2006;327-8, given that the sequence 10 2 normally stands for the numeral '12', Manichaean Sogd. hw'fs, it seems more straightforward to interpret the sequence 10 10 20m as "8as 8mits, literally 'ten twelve', with a phonetic complement -s as in the common spelling too for "8as 'ten' (cf. Sims-Williams 1978:260 on Dhu. 269) and graphic final -m. To judge from the Bactrian phrase of \$" nugles "we shall pay (at the rate of) two (to) one," literally "one two we shall pay" (already cited by Yakubovich, loc. sit.), such an expression should mean "at the rate of twelve to ten," i.e. "at 20% (interest)." Thus we reach exactly the same meaning as Gersheivich, but by a different route.

I turn now to the main purpose of this short paper, which is to propose a new crymology for Parth. In 'formerly', 'e In' from the first, in the beginning' (= MMP 'e 'by), hyng 'former, primeval, ancient' (= MMP 'hyng), hyng 'e and 'e... hyngh 'before'. The equivalence of the Parthian and Middle Persian forms was first recognized by Henning (apud Boyce 1954:189), who saw that the MP b' corresponding to Parth. s must derive from an OP '8, implying an erytomon with PIE '8.

Though Henning did not himself offer an etymology for these words, others have not been so reticent. MacKenzie (1967:28) suggested that Ved. sastyus- represents an assimilated form of *sásīyas-, whence PIr. *has(i)yah-, OP *habiyah-, and thus ultimately Parth. hs and MP 'hy-a solution which is evidently incompatible with Klingenschmitt's etymology of sásīyas- and sásīvant-, and which would leave these words without any cognates outside Indo-Iranian. Gershevitch (apud Morano 1982:10 n. 7) proposed a verbal noun and adjective *hasa- 'obsolescence; obsolescent, belonging to bygone days' derived from a Proto-Indo-European inchoative present *sn-sko-'ro become old' (cf. Lat. senësco) - a highly speculative derivation, even if one were prepared to accept the necessary assumption of what Gershevitch calls "inchoative theta," i.e. his theory that PIE *sk sometimes results in OP θ instead of expected s. In the most elaborate etymological discussion so far, Nyberg (1970) derives MMP by from the OP hapax legomenon a-8-i-y in DB I.91, which he reads as affair and translates as 'earlier', deriving it from an Indo-Iranian *asas (i.e. *asas) related to Gk. exeros 'that, yonder'. However, a much more straightforward explanation is available for OP allaiy, which can equally well or better be translated as 'then' and derived from *aba + *id (thus Mayrhofer 1960:123-4; Klein 1988:410; Schmitt 1991:55; differently Gershevitch 1959:171-2 and 1979:141). Two problems with Nyberg's explanation, apart from the long-range nature of his etymology, are the initial b- of the Parthian form, which has to be regarded as unetymological, and the fact that he is unable to offer a plausible explanation of the well-attested use of KZY, i.e. Aramaic key 'as, when, whereas', as

the logogram for the MP word. 1 Ideally, then, one should seek an erymon with inrial 4 m, which would be preserved in Parth. In but lost in MMP 4 m by dissimilation from the b (< OP 4 0) of the following syllable. At the same time, the postulated form should be capable of expressing a meaning compatible with that of Aramaic km as well as with the attested meanings of Parth. 4 m and MMP 4 m.

An etymon that seems to me to fulfill both of these criteria would be a PIr. *hasah, OP *haba, from a notional PIE *sys-bás* once.' Such a form would be parallel to Ved. *shkṛt, Av. haknṛŋ 'tid.', but with *sab (Ved. -da) rather than *kṛp (Ved. -left) as multiplicative suffix. From 'once' in the sense 'on one occasion' it is a small step to the meaning 'formerly, once upon a time.' It is likewise a small step to a conjunction '(when) once, as soon as' as in English: "Once Stephanie arrives, we can open the champagne." Although MMP 'hy is not attested in this sense, one may compare the development of OP habaram, a close cognate of Av. hakrṛṇ 'once', into the MP and ModP conjunction agar 'if, when'! If OP *haba underwent a similar development, its representation by the logogram KZT' as, when' would be unproblematic.

An apparent difficulty with this explanation is the final -y of MMP 'hy. From OP *hatta one would expect merely *'h. The most obvious solution is to explain the final -y as an additional suffix or particle, e.g. *id, that is, to start from an OP form such as *habaiy. If Parth. hs likewise derived from an extended form such as *hasai, its relationship to MMP 'by would parallel that between Parth. ms 'further, furthermore' < *mas(i)yah and MMP mhy (beside myh*) 'greater' < *maθ(i)yah-. A possible alternative is to regard the MP final -y as a merely graphic phenomenon resulting from the existence in the standard MMP orthography of several short monosyllabic words in which final -hy appears to be a conservative or historical spelling for [-h]. In addition to mby (beside myho, Classical Persian mih) 'greater', one can cite why (beside wyho, Classical Persian bih) 'better' and rhy (beside rh and rsh') 'chariot'; cf. also ahy 'then' (without variant in -h). A pseudo-historical writing of 'hy for *'h could also have been aided by the existence of another word spelled 'by (cf. Henning 1958:90 n. 2 on the confusion of MMP 'ny 'other' and 'n 'I'). As noted by Nyberg (1970:344), a second 'hy does in fact seem to be attested in at least one Manichaean Middle Persian passage, where 'by occurs with the imperative: 'hy b's Invirug'und (M 28 II, V I 13-14, in Andreas and Henning 1933:25). Here Nyberg takes 'by to be a variant of the interjection 'vy 'oh!'. but the meaning 'then' originally guessed by the editors is at least equally suitable: "Then be Thou powerful!" This meaning also suits a passage from the Shabuhragan, where "by occurs with a subjunctive in future sense: 'by 'wl 'bynz'd "then he will draw

³His attempt is not convincing. ⁴I may, however, venture the guess that it is a mutilation of the expression RZY QOMN has previously, used in Persan administrative Aramaic. (Nyborg 1970 1446). In an earlier discussion Nyborg (1931 104-7) had suggested that RZY was originally the logogram for a different MP *has derived from OP *spac (< *mbm)* 'here, then'</p>

¹OP Indestruit is in fact attented only once, in a difficult passage (DNIs 54-5), where its meaning is most likely '(at) once', see Schmitt 2000-43. For MI' rigar in the sense 'when', particularly in the expression again for bits' when once', as well as Kurdish again 'when', see MacKenzie 1999 31, 270.

(ti) up" (M 7984, I, R I 3-4, translated 'zuerst' in Hutter 1992;75-6, but "tédam' in Andreas and Henning 1932:19). If this interpretation is correct, 3* ly 'then' may be the direct descendant of OP abiny' then', only secondarily confused with "by (reate "bit) in the phrase 'c 'by 'from the beginning' (M 7984, I, R II 20 in Andreas and Henning 1932:11 and Hutter 1992;42-9.

Apart from one passage where 'by appears out of context with a lacuna on either side (Sundermann 1973:33, line 524), all published occurrences of MMP 'by have becited in the preceding paragraph. Thus the spelling of 'by with a final -y may in fact be a hapax legomenon. In the Middle Persian inscriptions and in Zoroastrian Pahlavi, the only spelling attested for this word seems to be the logogram KZT, which can of course stand for ab just as well as for aby.

In Inscriptional Middle Persian the expressions KZT 'formerly' and MN KZT 'wwwy' from the first' are well-attested in the inscriptions of Kirdir, while the adjective corresponding to MMP 'bmy occurs in the Paikuli inscription in the remarkable semi-logographic spelling KZT'nby (Skjærve 1983:105). In the manuscripts of the Frahang I Pahlawig, chapter 25, KZT is glossed by bs, written thus in Avestan, Pahlavi, and even Arabic letters (see Nyberg 1988:26-7, 105). In Pahlavi, bn or 's would of course be a normal way of writing ab < "hades, with s standing for [h] < "0 as in g's [gāh] < "gaßu-"ygāßa- etc. That this spelling was avoided in practice may have been due to the risk of confusion with the identically written word for 'wine'; in this context it is irrelevant whether the spelling in question is a logogram HS (as generally thought, following Henning 1954-43 with n. 3) or a phonetic writing of a MP 'bas 'wine' (with Nyberg 190-194). That these two words were indeed confused is shown by a passage of the Minty I Xrad, ingeniously clucidated by Nyberg, where it appears that a copyist twice misinterpreted HS 'wine' as hs 'formerly' and therefore replaced it with the logogram KZT."

In conclusion, we must consider Inscriptional Middle Persian and Zoroastrian Pahlavi HT, which is listed in the Frahany I Pahlawig as the logogram representing the conjunction agar 'if, when'. The interpretation of HT is problematic because no such word seems to be attested in Aramaic and none of the explanations so far proposed is entirely satisfactory. The most popular, first mooted by Noldeke (1878:43 n. 3) and strongly supported by Schaeder (1942:9-11), is to regard HT as a graphic corruption of "HTN, a plane-writing of Achaemenid Aramaic Im [hin] 'if'. Henning (1951:18 n. 3) objected to the assumed plane-writing and pointed out that the expected HN is attested in Inscriptional Parthian as a logogram for yad 'until' (perhago originally for yad 'it'). It is probably as a result of Henning's objection that MacKenzie (1971:6) derives HT directly from Aramaic Im; but this undermines Schaeder's palaeographic argument, which was based on the similarity of the letter 4 and the sequence 7m in Aramaic script. The alternative finally adopted by Nyberg (1988:102-3) was to reconstruct an Aramaic *hapt() = *habat-4* once, supposedly a derivative of had 'one'. How-

ever, as Nyberg himself had remarked when he first floated this idea, more than half a century earlier (1931:105-6), no such formation is attested in Aramaic. At that time he therefore gave preference to the hypothesis that HT is in origin an Iranian form, which became obsolete and thus came to be regarded as a logogram representing its synonym agar.

The weakness of this hypothesis, in the form in which it was presented by Nyberg in 1931, is that the assumed erymon, PIr. "aba" so', has neither the required meaning nor the initial "b- required by the spelling. But it may be worth reviving and adapting Nyberg's suggestion in the light of the evidence presented above for the existence of an OP "haba" synonymous with hakarum 'once'. In principle, MP "ab < OP "haba" could perfectly well be spelled br, cf. Zoroastrian Pahlavi spellings such as mrf for mib "false' < OP miba or ks for habas' c'hannel'. If ab < "haba 'once' was used at some stage (perhaps still in the early Sasanian inscriptions?) in the sense 'when (once), when, if', but then fell out of use and was replaced by its synonym agar, it would be understandable that the later scribes reinterpreted the spelling br as standing for agar, exactly as Nyberg proposed long ago. In that case HT would be a "pseudo-logogram," what Schaeder (1942:es) called "ein unchetsel teloogramm."

References

- Andreas, F. C., and W. Henning. 1932. "Mitteliranische Manichaica aus Chinesisch-Turkestan I." Sitzungsberichte der Preußischen Akademie der Wissenschaften, Philhist. Klasse, 1932. No. 10.
- 1933. "Mitteliranische Manichaica aus Chinesisch-Turkestan II." Sitzungsberichte der Preußischen Akademie der Wissenschaften, Phil.-hist. Klasse, 1933, No. 7.
- Boyce, Mary. 1954. The Manichaean Hymn-cycles in Parthian. London: Oxford University Press.
- Emmerick, Ronald. 1992. "Iranian." In Indo-European Numerals, ed. Jadranka Gvozdanović, 289–345. Berlin: Mouton de Gruyter.
- Gershevitch, Ilya. 1954. A Grammar of Manichean Sogdian. Oxford: Blackwell.
- ——. 1959. The Avestan Hymn to Mithra. Cambridge, UK: Cambridge University Press.
- —. 1962. "The Sogdian word for 'advice', and some Muγ documents." Central Asiatic Journal 7:77-95.
- —. 1979. "The alloglottography of Old Persian." Transactions of the Philological Society 1979:114–90.
- Henning, W. B. 1954. "Notes on the great inscription of Sapūr I." In Prof Jackson Memorial Volume: Papers on Iranian Subjects, 40–54. Bombay: Cama Oriental Institute.
- 1958. "Mitteliranisch." In Handbuch der Orientalistik, div. 1, vol. 4, section 1, ed. B. Spuler and H. Kees, 20–130. Leiden: Brill.

⁴Nyberg 1970 345 and 1974-97-8, correcting Nyberg 1931:104-5

- Hintze, Almut. 1994. Der Zamyād-Yašt: Edition, Übersetzung, Kommentar. Wiesbaden:
 Reichert
- Humbach, Helmut, and Pallan R. Ichaporra. 1998. Zamyad Yaśt: Yasht 19 of the Younger Avesta. Text, Translation, Commentary. Wiesbaden: Harrassowitz.
- Hutter, Manfred. 1902. Massix kosmogonische Sabuhragan-Texte: Edition, Kommentar und literaturgeschichtliche Einordnung der manuchausch mittelpersischen Handischriften M 88/90 I und M 7980-7984. Wiesbaden: Harrassowitz.
- Klein, Jared S. 1988. "Coordinate conjunction in Old Persian." Journal of the American Oriental Society 108:387–417.
- Klingenschmitt, Gert. 1972. "Die mittelpersischen Pronomina 'yn und h'n, neupersisch in und än." Münchener Studien zur Sprachwisenschaft 30:03-102.
- . 1975. "Altindisch śáśvat-," Munchener Studien zur Sprachwissenschaft 33:67-78.
- MacKenzie, D. N. 1967. "Notes on the transcription of Pahlavi." Bulletin of the School of Oriental and African Studies 30:17-20.
- . 1971. A Concise Pahlam Dictionary. London: Oxford University Press.
- 1999. Iranica Diversa. Vol. 1. Ed. Carlo G. Cereti and Ludwig Paul. Rome: Istituto Italiano per l'Africa e l'Oriente.
- Mayrhofer, Manfred. 1960. "Behistun I 91." In Indogermanica: Festschrift für Wolfgang Krause zum 65. Geburtstage am 18. September 1960. ed. Hans Hartmann and Hans Neumann, 121-4. Heidelberg: Winter.
- Morano, Enrico. 1982. "The Sogdian hymns of Stellung Jesu." East and West 32:9-43. Nöldeke, Th. 1878. "Geschichte des Artachsir i Påpakån, aus dem Pehlewi übersetzt,
- Notickek, J.R. 1878. "Geschichte des Artachsir i Papakan, aus dem Pehlewi übersetzt. mit Erlauterungen und einer Einleitung versehen." Beiträge zur Kunde der indogermanischen Spruchen 4:32-69.
- Nyberg, Henrik Samuel. 1931. Hilfibuch des Pehlevii. Vol. 2, Glossar. Uppsala: in Kommission bei Harrassowitz/Lundequist.
- ——. 1970. "Middle Iranian has, hastnag." In W. B. Henning Memorial Volume, ed. Marv Boyce and Ilya Gershevitch, 343–8. London: Lund Humphries.
- . 1974. A Manual of Pahlavi. Part 2, Glossary. Wiesbaden: Harrassowitz.
- Pirart, Eric Víctor. 1992. Kayán Yasn (Yasht 19.9-96): L'origine avestique des dynasties mythiques d'Iran. Barcelona: Ausa.
- Schaeder, Hans Heinrich. 1942. "Beiträge zur mitteliranischen Schrift- und Sprachgeschichte." Zeitschrift der Deutschen Morgenländischen Gesellschaft 96:1-22.
- Schmitt, Rudiger. 1991. The Bisitun Inscriptions of Darius the Great: Old Persian Text. London. School of Oriental and African Studies.
- . 2000. The Old Persian Inscriptions of Nagsh-i Rustam and Persepolis. London: School of Oriental and African Studies.
- Sims-Williams, Nicholas. 1978. Review of D. N. MacKenzie, The Buddhist Sogduan Texts of the British Library (Leiden: Brill, 1976). Indo-Iranian Journal 20:256–60.
- --- . 1997. "The denominal suffix -ant- and the formation of the Khotanese transi-

- tive perfect." In Sound Law and Analogy: Papers in Honor of Robert S. P. Beekes on the Occasion of His 60th Birthday, ed. Alexander Lubotsky, 317-25. Amsterdam: Rodopi.
- Skjærvø, Prods O. 1983. The Sassanian Inscription of Paskuli. Part 3.2, Commentary. Wiesbaden Reichert.
- Sundermann, Werner. 1973. Mattelpersische und parthische kosmogonische und Parabeltexte der Manichäer. Berlin: Akademie Verlag.
- Yakubovich, Ilya. 2006. "Marrage Sogdian style." In Iranistik in Europa: Gestern, heute, morgen, ed. Heiner Eichner, Bert G. Fragner, Velizar Sadovski, and Rüdiger Schmitt, 307–44. Vienna: Verlag der Österreichischen Akademic der Wissenschaft.

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Justice in Khotan

PRODS OKTOR SKIÆRVØ

Many years ago, Stephanie and I read Kharosthi documents with a Harvard graduate student. I am pleased to offer her something from this remote area of our studies.

I Background

The documents presented here are in the Iranian language of 8th-century Khotan, located along the western stretch of the southern Silk Road through Chinese Turkestan (Xinjiang). This language, which I have termed Middle Khotanese, differs from both the earlier Old Khotanese language of a large number of the Buddhist texts found at Khotan and the 10th-century Late Khotanese texts found at Dunhuang, at the eastern end of the southern Silk Road.³

The two documents I shall discuss here are today in two different collections. The first document, Hedin 2., comes from Dandan Oihq (Uliq), a ruined town in eastern Khotan, and is now in the Hedin Collection in the Museum of Ethnography, Stockholm (Ms. 1941,36.2). The site was discovered by the Swedish geographer and explorer Sven Hedin, who traveled to Khotan for the first time in 1894–76, but the manuscripts were obtained from locals and brought back by Nils Peter Ambolt, one of the co-directors of the Sino-Swedish expedition of 1932. Hedin 2 was published with translation and commentary by Harold W. Bailey in 1961.³

The second document is in the Petrovsky collection of the Institute of Oriental Studies, St. Petersburg, and was obtained by Nikolaj Fedorovich Petrovsky while he was stationed at Kashgar as consul and Consul General in the 1890s. The Khotanese manuscripts were published by Ronald E. Emmerick and Margarita I. Vorob'yeva-Desyatovskaya in 1993 and 1995. Emmerick was also preparing a glossary and additional commentary, which were left unfinished at his untimely death and which I am preparing for publication.

The two documents must be from the same original archive, which contained documents dated between 767 (the first year of Visá' Vāham) and 788. Another archive contained documents from the later years of this kine, his last being his 16th = 802.7

2 The story

Hedin 2 contains, first, a letter written by a Mrs. Budasanga to the saw Śattun, a local official, to complain about a certain Sāngula, who had taken away her children because her deceased husband allegedly owed hum money. On the same page, below her letter, is a copy of the saw's letter to Sāngula. Unfortunately, the ink has eroded the paper, and many akṣarss have left only holes, only some of which can be tentatively deciphered.¹

Hedin aa: The letter from Mrs. Budasamga

- z budasamgāna mijṣye hiye ma-m haṣṭama māśtā khvam kṣāmdai muḍā u vetka-m
- 3 ba-pūraka harya vaña-m sam hamye hadai dva pūra ysyāmdā u śā dvarā sāmgu-
- li tta-m hve si kṣāmdai-y-e sāna-bādā mānai hira trude u khu jūmdai ye ttī-
- 5 t-ī ni pajistāmdā nai bve sā ttudā ā ni vaña-m āspāta hiyaudāna khu dā bye-
- 6 hūm hīye cūm pūra naṣkāḍāmdā ttyām keņa-m tta hvādā si yauvarāyām
- 7 thamgă puda cu duva tvă-t-um cigye pracai ysyâmdă —

Bailey's readings: 3 beg. ma pūraka; end: sāṃgū-, --5 vā for dā; --7 ei tīye praess "which was his perquisite" for egye praesi

I make a report to the Lord Minister ssau Sattum.

I (2) am Mrs. Budasamga. O Lord, here it is the eighth month for me since my husband died and my small (3) boys/children were left behind.

Now, on the very same day, they took away my two sons and one daughter.

Sangula (4) said to me: "Your husband *carried off my property in enemy time."

¹Since most readers of this volume will not be familiar with the language, the editors graciously allowed me to include a vocabulary of all the texts cited.

^{*}On the discovery of the Khotanese manuscripts, see Skjærvø 2002, Introduction

See Stein 1907-240-303. This is Khotanese Gaysata/gazata/

^{*}See Gropp 1993, Wahlquist 2003.

¹Bailey 1961 21 2 (text), 61-7 (translation and commentary). See also Skjærvø 2008:132-3, 144 (plate 6).

*See Emmerick and Vorob yeva Desyatovskaya 1995:19-20.

⁷See Zhang and Rong 2008; Skizervo 2008.

^{*}Italics in the texts = uncertain readings; when orted in the commentary and glossary, statics and roman are reversed; (...) = cditronal addition, [...] = adams broken out by a hole in the $ms_n = -s$ space Spelling $y_0 / x_0 / x_0 / x_0 / s / \text{sh} x_1 / y_0 / x_0$

[&]quot;Thus sign was originally si, an abbreviation for suddham, which was gradually simplified to a sign looking like a howl with a vertical stroke in the middle.

Prods Oktor Skjerva

And when he was alive, then (5) they did not ask for it. I have no idea whether he *carried (it) off or not.

Now my refuge is with the Lord for how I get justice. (6)

O Lord, as for my sons (whom) they "collected," about them they said to me that they (7) owed them as tax for the Young King. As for (my) daughter, her they took (to serve) for/as a Chinese woman for them.

Hedin ab: The ssau's letter to Samgula

- 1 Ussau śattu tta pari sămguli vara thu budasamgāñā dva
- 2 pūra ysvai u śā dvara x khu sa [......pu]-
- sa haura thyau -tā -a ci ysamthinai hā haure ttī-y-e ttye iistä va biśi hvam-

dā kīra hau x x si x x x x x x x ha] dai ttā parau tsve10

The state Satturn orders thus: To Samgula.

You took Mrs. Budasaṛṇga's two (2) sons and one daughter. When . . .

(3) give ... right away. Quickly ... that you give it to her with interest, then ... you ... for that (which was) requested ... all (4) the works of the men...

[On the -th] *day [of Simisimia?], the order went out to you.

From this it appears that the sease disapproved of Sāmgula's actions, though, unfortunately, what he ordered him to do to mend matters, other than to give Mrs. Budasamga something, possibly with interest, remains unclear.

a The prequel

It was while reading a wooden slip (a common form of record-keeping) among the St. Petersburg documents at about the same time as I was re-reading the Hedin documents with my students that I came across the name of Budasanga and remembered the plight of Mrs. Budasanga. It now became clear to me that this little text provided the background for Mrs. Budasanga's story. Her letter is fairly unusual in Khotanses literature, and finding two pieces of one and the same story is quite unprecedented.

SI P 142.11

- az spāta salbī tra parī budasamgā vara tvī mūri haurāti ye vatia budasa[m]ga
- az půn drrammäji vistätai khu parau pva['] tti můri haura ka nı tti hā hivî půri haura

- bī mişjye hā hīvī pūrā haura ka aysi svī ysai ysai ttara hīsūm ko r-masi daul-
- b2 byehi ma-m vā 'ā ci parau haudi si ttye hā gyāri kalāsca yana"



Emmerick's readings: as salf for salbī; —ax mūri for pūri; —bt mūrš for pūrā; —bz »-ni, but 'ā a' is almost certain; the first aksara a is clear in a color photo in Emmerick's Nachlass, while the superscript a' is pardy tubbed off.

General Salbī orders thus: To Budasamga.

You were (supposed) to pay the mūrās (money). Now, Budasanga, (a2) you have put up (your) son as collateral. When you hear (this) order, pay those mūrās! If not, then give them your son; (b1) give them (your) wife's

When I come there early tomorrow, (guess) whether you will get a first-rate stick!

(b2) There came (someone) here to me who gave the order: "Sort out this dispute for them!"

Here, we learn the reason why Mrs. Budsamga's son was taken away from her, but justice in this case appears to have gone too far, since the daughter, too, was taken away. The gase Satuum in charge of delivering the verdict may have had knowledge of this cardier document and ruled accordingly, and it may have been he who sent a messenger to Salito to "sor out" the business.

The documents are also of interest in what they tell us about Khotanese families. According to the earlier document, Budasamga and his wife each had a son, the wife's at least probably being from an earlier marriage. The daughter, who is not mentioned in the earlier document, must then have been theirs together, as Mrs. Budasamga obviously had not remarried after her husband's death.

A document similar to Hedin 2 is the following in the Petrovsky collection, which also has a letter of complaint followed by a copy of the official's verdict:

SI P 95.4 (upper left, ll. 1-5) + 93.10 (lower left, ll. 6-8) + 103.15 (right, ll. 1-8)"

SI P 95.4 + 103.15

- 1 hiyaudi āmāci ssau sīlām va/ra tta hasdi vani ---- a-
- 2 ysi gaysātaji jigemdai hūye [vaña-m] kriṣṭa pamūhaja thauna pajistāmdi u thau-
- 3 na ni ya tti ma jsa auva-ham[dasta] nāta pamjsa thaunaka harṣṭā vīra u [x]
- 4 gühi dvi ysari pam-se x [x x] vaña am mam ttvam pamiem thaunam vira müri
- 5 vahajimdi pam-se vaña-m ā[spāta] h[i]yaumdina khūm dā ī hīye trū vā parva

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¹⁰ See Skiærvø 2008:133 on swa Śattum's signature.

[&]quot;Emmerick and Vorob'yeva-Desyatovskaya 1993, pls. 1292,b, 1995:162.

¹⁵ General Salbi's signature is known only from this document.

¹³ Emmerick and Vorob'yeva-Desyatovskaya 1993, pls. 83a, 65b, 171a, 1995:106, 92, 141 (not combined).

Prods Oktor Skiervø

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SI P 93.10 + 103.15

- 6 [spāta sīlam tta pa]rī --[----] spāta ssanırakā vara khu parau
- 7 [pva' ttye ji] g[em]dai ttye guhi [x x x] par[ya] yuda hamdyaji 10 z mye ha-
- 8 [dai ttā parau] tsve ---

Emmerick 5 îhîye 'foreign' [1.e., 'not our own'] for î hîye.

I thus make a report to the Lord Minister, the sam Sīlām.

I (am) (2) Jigemdaa from Gaysata.

O Lord, [now] they requested from me so cloths for clothes, but (s) three were no cloths. Then the village headman took/received five small cloths from me toward the *remainder plus [x] (4) cows worth 23xx (minnts). Now they are *dunning me (s) for soo minnts toward those five cloths.

Now my refuge is with the Lord. If there would be any justice for me, order this, O Lord!

(6) [The General Sīlāṃ *orders [thus]. To General Ṣṣanīraka.

When (7) you [hear] the order, order [that the...] of Jigeṃḍaa's cow

On the 12th of Hamdyaja, (8) [the order] went out [to you]

Compare also the fragmentary letter from Achma from Stein's fourth expedition:14

- ı || hiyauda âmāca şṣau viṣṇadattà vara tta haṣḍı yane ---- aysa
- 2 kṣā' auvā bisai ysevidṭā hīye mam vā aḍā āna rrvīya thauna pastāmdā [...]

I thus make report to the Lord Minister, the Man Vişnadatta. I (am) (2) Ysevidta residing in the Six Towns. O Lord. They have now ordered from me here (the?) other royal cloths.

4 Notes on Hedin 22

Line x. Andca is the local form of Skt. andtya 'minister', which was used as the title of a high official in this area. Tibetan and Chinese documents from Khotan have 'amacha' and 阿保支 andcha'.

gau is the title of an official, but does not yet have a satisfactory etymology. There are documents dated "in the year"/"in year X" of such and such a gau.

The truple title is also found in SI P 95.4+93.10+103.15 and the letter from Achma (above), as well as in the fragmentary Or. 6401/1.3¹⁶ hyandi āmāci ṣṣau [name lost].

bāḍā 'time', rather than 'land' (Bailey: pr. n. Sāna Bāḍa)

Line 5. nai bre, lit. "I do not know it" (nai: ne + t). Cf. Hedin 3a line 6 ays- \bar{t} ām nu bre "I do not know it," line to khwai a brīna (khwai, kho + - \bar{t}) "how I shall know it."

da byb. 'ger justice' is also in SI P 91.4 + 93.10 + 103.15 (above) and in Or. 11232/5a lines 7-8, a fragmentary letter to the biyauda spātas Sudārrjum 'the Lord General Sudārrjum': [vañā-m āṣpāta? bi/paudāna kbu dā byehān "[now our refuge is] with the Lord (for) how we shall get justice." 19

Line 6. naskādāmdā from naskār-, also some kind of 'take away', is probably more precisely used in the documents for collecting a debt or, as here, a collateral, drammaa-(whence drammāja-, see below). Cf. IOI. Khot 52/5 in a context similar to ours: 20

- 22 / x mam / vaña budattāna u pūra buda /
- a3 / b[r]ya ji mam nāra naṣkāḍāṃda thau ām /

... Now, Mrs. Budatta and (her) sons Buda[-...] they *collected my dear wife. Cloth ...

In Or. 1132/4. 1. 7, the verb governs drawmå in a context concerning grain for some men about to die of hunger: blu parwa pow one me tra jodn't i thyau thyau-t-i parya wata blu tta bro na i biau drammå najbin "When you hear the order, whatever grain you may have, as quickly as possible please place it (i.e. make it available). There should be no man (to use') thus, "collect the collaterals in his house." Note also Or. 12637/17.5 [...] biáu drammai byabi nadyndi "the collateral in his house (or) more was "collected from him" (?)²³ and IOL Khot 23/14 az drammai-y-ūm būysī [...] "his seazed mylour/their collateral." ²³

¹⁴ Skjærvø 2002 581. See photo labeled T.O.20(B) at http://idp.bl.uk (search for Achma).

[&]quot;See Bailey 1979 412 3

¹⁶ Skjærvo 2002 19

Line 4. trude "carried off: the verb is otherwise known only from the Old Khotanese Book of Zambasta 22.23;" jantandi Sujiatu surw Sijiye ggidio bradanda trundanda drigo huntanda bira stipyuda nanda "beings struck each other, they ate each other's Rhotanese ketter found at Durhhung, Pelliot 2700.66: berä kuna kir'n padamnj jāda u Siji phya strin bidā trūdā judamda "for the sake of property, they destroyed the good state of the land and were able to "carry off each other's animals." "

[&]quot;Emmerick 1968:424-5, where 'plundered' for stundanda

¹⁸ Bailey 1961:64-5.

¹⁹ Skjærvo 2002 88.

³⁰ Skpartvo 2002. 288, where I read " . sā' dām da" for naskādāmda.

[&]quot;On but- 'house', as well as 'village' (Chin. 17 clin), see Duan Qing 2008.

[&]quot;The form mushyadi is puzzling, it could concervably be the intransitive counterpart of mushad-

³⁵Kjærvo 2002:126, 219. For additional texts, see Duan Qing 2014.

The verb Mrs. Budasamga uses in line 6 may then be the same word the collectors used when they came to "collect" her collateralized children.

Line 7. cigye pracai, lit. "for the sake of a Chinese (female)" or "to be a Chinese 'girl' for them"? Cf. Hedin 9, line 2 tharsa sāmda(ri) hīva ciai bastam(di) "they took away the pharsa Samdara's Chinese women."24

5 Notes on SI P 142.1

Line ax. The spāta Salbī is also in document Or. 9268B,25 dated in the 17th year, presumably of Visa 'Vaham, that is, in 783.

Line a2. drrammāja- 'as collateral'. The term puzzled earlier scholars. Bailey rendered it as 'financial', Skjærvø as '*to make money, money-maker', and Emmerick as "(intended) for payment', 26 The meaning 'collateral' came to me while I was working on the Hedin and St. Petersburg documents, and Duan Oing (2014) has now independently come to the same conclusion from her study of new material. See also Skjærvø forthcoming, Cf. Hedin 29 salš 13 māstā mūñamja hadā 9 ksuņā / . . . tsīsī]yām tcurmye salye si' drammāje-vāda pida/kā...] "Ycar 13, 9 days of the month of Mūñamjā, the regnal year [of (king's name)], in the fourth year of the trisis. This letter (which is) a document concerning collaterals [is for the reason that ...]. "27

Lines bx-a. "Getting the stick" (daula-) was a common punishment in Khoran in both the 8th and 10th centuries according to the documents. 28 Cf. Or, 9268B b1.6-7 cu ttū śūsta pedamdina gvārā hamīhyī rruī va mūri 200 hedi u 50 daulā nāstā "whoever may change this case from (what has been) polished and executed, to the court he will pay 200 muras and get 50 (strokes) of the stick"; IOL Khot S 25.108 (from Dunhuang; teacher's admonition to student) sāja thyau ...khu dāļa na byehā "Learn quickly ... so that you may not get the stick!"29

Line ba. kalāssa was read by Emmerick as kalāssi, who translated the sentence as "make pea soup (?) of this business." It is also in SIP 103.51 line 5:30 [...] kalāsca yang kino ysamth/- "Sort out [...]! If ... interest [...]" The negated term means approxımately 'incompetent'. Hedin 3a lines 7-9 has akalaści 'incompetent' and akalāścauñā

'incompetence': da[m]dı akalāści hiri yudai khu ttā h(v)amdı ksauva āsāmd[amd]i cūdı nı pajistai u vä-t-e hauraña ya mam cu tti murä ysamthadi himye si' ttadi [x x x] akalāścauňa ya cũm tti hambâ ni biśi uspurri ni pajistai "What you have done is so incompetent! When the men brought the vouchers to you, why did you not ask (for them)? And you were to deliver them to me! The fact that I had to pay interest on that money, that was such . . . incompetence: the fact that you did not request their entire complete amount^{†29}

6 Glossary³¹

-m, -am, encl. pers. pron. 1st sg. (OKhot. mä), 1st pl. (OKhot. nä), and 3rd pl. (OKhot. nu, nä). See aysä.

a sec aysä.

a- ya- (OKhot. väta-) 'to be, become'; f opt. 3rd sg.; ya 3rd sg. fem./3rd pl. masc., ye 3rd sg. masc./3rd pl. fem.; OIr. *ah- *būta-.

akaláśca- '"incompetent'; akaláści nom.-acc. sg. masc./neut. See kalásca-.

akalāścauñi- fem. '*incompetence'; akalāścauña nom.-acc. sg.

adā from adāra- 'other'?

aysä, a (OKhot aysu) 'I'; aysī: + -1; OIr. *aíam, Av. azəm, OPers. adam.32

ā (OKhot, au) 'or'.

å scc his-.

âm sec ána.

ājum- ājumda-, ājāmda- 'to bring'; ājāmd/āmd/i 3rd pl. masc.; OIr. ā-yāmaya-,

āna, ām particle (emphasizing here and now?); from āna- 'sitting'.

āspātā- 'refuge'; āspāta nom. sg.; + instr.-abl. 'with'. āmāca- title of official, 'minister'; āmācā nom.-acc./gen.-dat. sg.

i sec a-. -i, encl. 3rd sg. pers. pron.

uspurra- 'complete'; uspurri nom.-acc. sg. masc./pl. fem.; OIr. *us-pyrna-. -sim sec -m.

-e (OKhot. tā) encl. 2nd sg. pers. pron.; see thu.

auva- (OKhot. āvuta-) 'town, village'; ksā' auvā loc, pl.

auva-hamdasta- 'village headman'.

ka sce ko.

kalāsca- '*competent'; + yan- 'sort out'.

kina (LKhot.) see kena.

kīra-'work'; kīra nom.-acc. pl.: Av. kairija-.

²⁴Cf Bailey 1961:27, 94.

²⁵ Skrærvø 2002 68-69

²⁶ Bailey 1961:142, Skizervo 2002;67-8, Emmerick and Vorob'yeva-Desyatovskaya 1995:162

³⁷Cf Bailey 1961:39, 142-3.

²⁴ See also Hitch 1998

²⁹ Skiæryø 2002, 68-9, 512

¹⁰ Emmerick and Vorob'yeva-Desyatovskaya 1993, pl. 125a, 1995.157 (where "x lâ sasya ca")

[&]quot;Verbs are entered with present and past stems. The past tense (commonly called "perfect") is conjugated according to person, number, and gender

³² Note Olr. *ć /tś/, í /dź/

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kūra- 'blind, false'; kūre nom.-acc. pl. fem.; Sogdian, Persian kūr. ttud- (OKhot. ttund-) past stem "carried off"; ttude, ttuda 3rd sg. masc., ttundanda kena 'concerning, about', postpos. + gen.-dat.; older kidna, LKhot, kina, OKhot. ard pl., LKhot, ttuda vudamda potentialis. kadana, ultimately from Skt. krtena. ttu, ttyām, ttye, tvā sec tt-. ko. ka 'iP. teurama- 'fourth'; gen,-dat, sq. teurmve; < "éufra- (cf. pūha- 'crh" < puefa-). ksa'- (OKhot. ksasa /ksaza/) 'six'; ksa' for ksvā' loc.; see auvā-. tvi, gen.-dat. sg. of thu 'vou'. ksámdaa- 'husband'; ksámdai nom.-acc. sg.; older ksumdaa-, cf. Av. fšuitant- 'husbandtsīsīya-, title of official; Chin. \$11 \psi cishi. man', Skt. ksumant-? trū- tsva- (OKhot. tsuta-) 'to go'; tsve 3rd sg. masc.; OIr. *čyawa-, Av. šauua-, OPers. kusta (OKhot, ksasti) '60'. šiyavaksira- 'land'; LKhot. ksi'ra gen.-dat. sg.; Tumshuqese xlera-, OIr. *xsaibra-, Av. xsabrathamga- 'tax'; thamga nom.-acc. sg. 'command' and southra- 'settlement'.33 thu 'you' pers. pron. 2nd sg. ksuna- 'regna' year'; nom.-acc./gen.-dat. ksunä; Gandhari ksuna. TochB ksum.34 thauna- 'cloth'; thau nom.-acc. sg., thaunam gen.-dat. pl. ksau 'voucher'; ksauva nom.-acc, pl.; Chin. #4, \$4 chão. thrau (OKhot, thatau) 'quickly'. khu 'that, when, how'; khūm, khvam: + -m damdi 'so much'. gaysātaja- 'from Gaysāta'; gaysātaji nom.-acc. sg. dá- 'law, justice'; dá acc. sg.; OKhot., Av., OPers. dáta-. agusta- 'meat'; gausto acc. sg.; Persian gust. duvar- 'daughter'; sg. nom. důva, acc. dvará; OKhot. dutar- < *duxtar-, gühä- 'cow'; güht gen.-dat./nom.-acc. pl. drstīvatā- 'view'; drstīvate nom.-acc. pl.: Skt. drstigvara- 'dispute, case'; gvari nom.-acc./gen.-dat. sg. daula-, dāla- 'stick'. ci rel. pron. dpa 'two' nom.-acc, masc., dvi fem./neut. cigā-, cimgā- 'Chinese (woman)'; cigye gen.-dat. sg., cige, cigi nom.-acc. pl. drrammaa- 'collateral'; drammai norn.-acc. sg., drrammā norn.-acc. pl.; ultimately cu 'as for; whatever'; cv-e: + -e; cum: cu + -m. from Boagun, 15 cūdi 'why'. drrammāja- 'as collateral'; drrammāji nom.-acc. sg. masc. CP-E SCC CH drammāje-vāda- 'document concerning collaterals'; nom.-acc. sg. drammāje-vāda. ii particle drūjā- 'lie'; drūjo acc. sg.; OIr. *draujyā-, cf. OPers. draujana- 'liar'. Jigemdaa-; Jigemdai nom.-acc./gen.-dat. naskār- naskāda- 'to "collect'; naskyadī (see n. 22), naskādāmdā 3rd pl. masc.; OIr. iin- jäta- 'to destroy'; OKhot, jatanda, LKhot, jädä ard pl.; cf. Skt. ksinä-, *niś-kāra-, cf. MPcrs, hangār- 'to reckon, count') iiv- iista- 'ask for'; iista past part, acc./gen.-dat, sg.; Av. iaidiia-, OPers, iadiva-, nāta- see nāsnămdaa- 'alive'; jūmdai nom.-acc. sg.; pres. part. of iuv- 'to live', Av. juua-, Sogd. žw-, nāri- 'woman, wife'; nāra nom.-acc. sg. with a-stem ending. OPers. iiva-. nās- nāta- 'to take, receive'; nāstā = 3rd sg., nātā 3rd sg. masc., OKhot. nāndā 3rd pl. jya- (LKhot.) see jin-. ni, nä 'not', OKhot, ne; nai; ne + -i. jsan- jsata- 'to strike'; OKhot, isatāndi 3rd pl.; OIr. *jan- *jata-, pam-se '500'; < pamisa + satà. jsāra- 'grain'; jsārā nom.-acc. sg pajiy- pajista- 'to request'; pajistai and sg. masc., pajistāmdi, pajistāmda ard pl.; see # oblique stem of si'/zi/, pers./dcm. pron. 3rd pers; ## (OKhot. ###) acc. sg. masc., två (OKhot. ttuto), acc. sg. fem., ttye gen.-dat./instr.-abl. sg. masc./fem., tti nom.pamisa '5', pamjem gen.-dat. (OKhot. pamiinu, i-stem deel.). acc. pl. masc./fem. ttyām, gen.-dat. pl. masc./fem. padamjā- 'structure'; LKhot. padamji gen.-dat. sg.; cf. padīm-. tta 'thus' padim-pedamda- (OKhot. padanda-) 'to make, *execute'; pedamdina past part. instr.ttadia- (OKhot, ttandia-) 'so much'; ttadi nom,-acc, sg. masc./neut. abl. sg. masc.; Olr. *pati-damaya-. ttara, with 2nd person deixis: 'there (where you are)'. Cf. mara, para. pariy-parsta-, pasta-'to order'; pari 3rd sg., parya imper. 2nd sg. (also 'please'), pastāmda tta, directional particle to 2nd person: 'to you'. ard pl. masc.; cf. parau. tti (OKhot, ttīta) 'then'; tti-t-i; + -i, pamuhaja- 'for clothing'; < pamuha- 'clothing', OIr. *pati-mux8a-. parau- 'order'; cf. pariy-. "N Sims-Williams apud Boyce 1990 7-8. ** Bailey 1979'69 35 Barley 1961:70.

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basta- see barry-. ya- sec a-. yan- yuda- 'to do, make', past stem yuda-; yana 2nd sg. imper. act., yane 1st sg. mid., pidaka- 'letter': < pur- 'to write' < Chin. # bi 'writing brush, pen'.36 yudai 2rid sg. masc., yuda past inf.; OKhot, also gan- gada- < *buna- *krta-. puda-, past stem of . /par 'promise to deliver, owe'; puda 3rd pl. mase. pusa (OKhot, pusso) 'right away'. yauvarāyāna- belonging to the Young King'; yauvarāyām nom.-acc. sg. ysamtha-'interest' (also 'birth'); ysamthina instr.-abl. sg. (-nai: + -i); Av. zaba-'birth'. păra- 'son; children'; pări nom,-acc. sing, pâra nom.-acc. pl.; Av. pubraysamthada-'interest-bearing'; ysamthadi nom.-acc. pl. fem.; -da- from -gāda-. See yan-. puraka- diminutive of pura-, puraka nom.-acc. pl. pedamda- see padim-. ysāri (OKhot. ysāru) '1000'; OIr. *hazahram. pracai for the sake of, postpos. + gen.-dat.; Skt. pratyaya. ysán- ysya- (OKhot. ysán- ysäta-) 'to take away'; ysyai 2nd sg. masc., ysyāmdā 3rd pl. pv'- (OKhot. pyūs-, pyūv'-) mid. 'to hear'; pva' 2nd sg.; OIr. *pati-gauśa-, Sogd. ptywś-. masc.; OIr. *jyā-/jī-, Av. zinā-, OPers dinā- dīta-, Skt. jinā-. Ysevidta-; Ysevidta gen.-dat. pharsa, title of official, 'iudge': OKhot, pharsapata-, OIr, *frasa-pats 'master of questioning'? Tibetan and Chinese from Khotan phar-śa and 破沙 pòshā.37 ysai 'carly'. ba- (OKhot, bata-) 'small'; cf. MPers. wad, Pers. bad 'bad'? vsvai see vsiin-. na enclitic 'and'. bāda- 'time; land'; bāda gen.-dat. sg. PTWE COURTS. bāy- bāsta- 'to lead (away)'; bāstāmdi 3rd pl.; OIr. *wādaya-. bäysamj- bäysīya- 'to seize'; baysī 3rd sg. ทางังล- 'for the court'; ทางังล nom.-acc. pl. masc. pa 'for', postpos. + gen.-dat.; OKhot. vaska < OIr. *paskāt '(following) after'? biśa- (OKhot, biśa-) 'every, all'; biśi nom.-acc, pl. masc.; OIr. *niéwa-, Av. pispa-, OPers. visa-. vaña, vamña (OKhot, vawña) 'now'. nama 'there', postpos. 'to' + acc. in letters; OIr. *awahra. bisaa- 'residing (in)' + loc.; bisai nom.-acc. sg. masc.; from bisā-? bisā- 'house'; bisa loc. sg., bisai: + -ī; OIr. *wió-, Av. vis-, OPers. vib-. vahaj- 'subtract, dun' (?); vahajimdi 3rd pl.; OIr. *awa-8amaya- 'pull down'? Budattānā- 'wife of Budatta'; Budattāna nom. vii, directional particle to 1st person: 'to me/us'. Budasamga-; Budasamga voc., Budasamga nom.-acc. vist-vistāta- 'to place'; vāstā inf., vistātai 2nd sg. masc.; Av. auua-staiia-. Visnadatta-; Visnadatta nom.-acc. Budasamgānā- 'wife of Budasamga', Budasamgāna nom.-acc.; Budasamgānā gen.-dat. vistāta- sec vićtbyahà (OKhot. byehà) '*more'; byahi: + -i. byeh- 'to obtain, receive, get'; byehûm 1st sg., byehî, byehû 2nd sg., byehûm 1st pl.; from PBW 'on, toward', postpos. + acc., gen.-dat.; OIr. *upgriv-d. vetka- (OKhot. vändäka-) 'small'. *abiy-āfaya-, OIr. *abiy-āpaya- (pass. °āfya-). bria- 'dear'; brya nom.-acc. sg. fem.; Av. friia-. śā, nom.-acc. fem. of śau 'one', เห็นiata- (OKhot.) 'each other'; เห็นiatu acc.sg., เห็นitye, LKhot. หันje gen.-dat. sg.; from by- mid. busta- 'to know'; bye 1st sg., byina subj. 1st sg.; OIr. *bauda-. śśau 'one' + śäta- /żäta-/ 'second', OIr, "dwita-, ma isa 'from me'. śūh-/źūh-/śūsta- 'adorn, polish'; śūstā past part. instr.-abl. sg. masc. with group inmam either gen.-dat. 'me' (OKhot. mama') or ma-m as 'here (for) me' (OKhot. mama mà). flection; renders alam-krta- and prayojaya-, ultimately from Skt. yogaya- with past stem analogical with roots in -b- (< -5-)? mara 'here': OIr. ιmaθra. Ssaniraka-; Ssaniraka nom.-acc. -mass 'having the size of': 1-mass 'the size of no. 1, prima': Av. o-masah- 'the length of si' /za/, pers./dem. pron. 3rd pers. masc.; see #-. ssau, title of an official. mánaa- 'my', mánas nom,-acc. sg. masc. māśti- 'month'; nom.-acc./gen.-dat. sg./nom.-acc. pl. māśtā. sum (OKhot. samu) 'only, very same'; from Skt. salii- 'year'; sali nom.-acc. sg., salve gen.-dat. sg.; Av. saraba-, OPers. bar(a)d-, mijsye (OKhot. majsate) 'wife'. mar-muda- 'to die'; muda 3rd sg. masc.; Av. miriia-, marata-, OPers. mariya-. Samgula-; Samguli nom.-acc. sg. Muñamja-, second month of winter. saj- 'learn'; saja imper, 2nd sg.; OIr. *sačava-. mūrā-, monetary unit, muri nom.-acc. pl.; < *mudrā . Sāmdarasāna 'enemy'; Sogdian sān, 10N Sams-Walliams in Emmerick and Skiervo (eds.) 1997-92-4 si, sai (OKhot. se) particle introducing direct speech; cf. skyty 'i.e.' in the Arameo-Indic **Bailey 1961 56

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Aśoka inscriptions: "Induc word shyty Aramaic word"; < *sahyatai, OPers. θahaya-'be called' < OIr. _/ćanh, Skr. _/śarns?

Simisimia-, last month of spring.

Silam, nom.-acc.

stura- 'pack/riding animal'; stura nom.-acc. pl.

spāta, title of official 'general'; nom.-acc. sg.; OKhot. spāvata-, nom. sg. spāvate, OIr.
*spāda-pati.

spi 'tomorrow': OIr, *swah, Skt. śvas.

hadāa- 'day'; hadai gen.-dat. sg., hadā nom-acc. pl.

Handvaia-, first month of summer.

hambā 'amount': OIr. "ham-bāga-.

hama- '(one and the) same'; gen.-dat. sg. fem. hamye; Av., OPers. hama-.

hamih(y)- 'to change'; hamihyi 3rd sg. opt.; OIr. "fra-masbaya-.

harya- see hars-.

harsti- fem. '*remainder'; < hars-?

hars- harya- (OKhot, hars- harrata-) 'to be left behind'; harya 3rd pl. masc.; OIr. *frarussa-/rista-, cf. Skt. rinakti.

hastama- 'cighth', hastama nom.-acc. sg. fem.

basdi- fem, 'report'; basdi nom,-acc, sg., + van- mid, 'to report', polite address.

hā, directional particle to 3rd person: 'to him/her/them'.

him- himya- 'to become'; himye nom.-acc. pl. fem.

hiyaud-, hiyaumd- (OKhot. hīyaund-) 'owner, lord'; hīya nom.-voc. sg., hiyaudā acc. sg., hiyaumdina, hiyaudāna instr.-abl.; < *hīvia-, cf. Sogdian xēpbāwand.

hira- 'thing, property', hiri nom.-acc. sg., LKhot. herii gen.-dat. sg.; Parthian ir, MPers. xir. renders dharma.

hīvia- 'own, belonging to'; hīvī nom.-acc. sg. masc., hīya (for hīyi) nom.-acc. pl. fem.; Av. ชัลเอลเซิเล-

hts-āta-'to come'; hīsūm 1st sg.; ā 3rd sg. masc.; OIr. *ā-isa- *ā-gata-, Sogdian ēs-āyashedi sec haur-.

herà (LKhot.) see hira-.

haur- hauda- 'to give, pay', hedi ard sg., haura imper. and sg., haure subj. and sg., haudi ard sg. masc.; haurāña- part. nec. (+ gen.-dat. agent): haurāña nom.-acc. pl. masc., haurāñi nom.-acc. pl. fem.; OPers. fra-bara-, Tumshuqese ror-, Sogdian brar-

hva- see hvan-.

bvand-, hvad- 'man'; hve (for hve') nom. sg., hvandi nom.-acc. pl., hvandā(m) gcn.-dat. pl.; OIr. *auša(h)want- 'mortal' (or *ušīwant- 'scntient'?).

hvar- hvada- 'to eat'; hvadanda 3rd pl.; OIr. *hwaru- hwarta-, IE. *swel-?

hvāñ- hva- (OKhot. hvata-) 'say'; hve 3rd sg. masc., hvādä 3rd pl. masc.; OIr. *xwānayaxwata-, Persian x"ān- 'read'.

hve see hväñ-, hvamd-.

References

- Bailey, H. W. 1961. Khotanese Texts. Vol. 4. Cambridge, UK: Cambridge University Press.
- -. 1979. Dictionary of Khotanese Saka. Cambridge, UK: Cambridge University
- Boyce, Mary. 1990. "Mithra Khšathrapati and his brother Ahura." Bulletin of the Asia Institute 4:3-9.
- Duan Qing. 2008. "Bisā and Hālau in a new Chinese-Khotanese bilingual document." Journal of Inner Asian Art and Archaeology 3:65-73.
- 2014. "Pledge, collateral and loan in Ancient Khotan." Eurassan Studies 2:249–68.
- Emmerick, Ronald E. 1968. The Book of Zambasta: A Khotanese Poem on Buddhism. London: Oxford University Press.
- Emmerick, Ronald E., and Prods Oktor Skjærvø (eds.). 1997. Studies in the Vocabulary of Khotanese. Vol. 3. Vienna: Verlag der Östereichischen Akademie der Wissenschaften.
- Emmerick, Ronald E., and Margarita I. Vorob'yëva-Desyatovskaya. 1993. Saka Documents VII: The St. Petersburg Collections. London: School of Oriental and African Studies.
- . 1995. Saka Documents Text Volume III: The St. Petersburg Collections. London: School of Oriental and African Studies.
- Gropp, Gerd. 1993. "Dandăn Öili'q ('ivory houses')." In Encyclopedia Iranica, ed. Ehsan Yarshater, vol. 6, fasc. 6:645. London: Routledge.
- Hitch, Douglas A. 1998. "Penalty clauses in Turnshuqese, Khotanese and the Shanshan Prakrit." Studia Iranica 1988:147-52.
- Skjærvø, Prods Oktor. 2002. Khotanese Manuscripts from Chinese Turkestan in The Brutish Library. London: The Brutish Library.
- —. Forthcoming. "Khotanese land purchase deeds." In Studia Philologica Iranica in Memory of Professor Gherardo Gnoli.
- Stein, M. Aurel. 1907. Ancient Khotan: Detailed Report of Archaeological Explorations in Chinese Turkestan. Vol. 1, Text. Oxford: Clarendon Press.
- Wahlquist, Håkan. 2003. "Hedin, Sven." In Encyclopadia Iranica, ed. Ehsan Yarshater, vol. 12, fasc. 2:136–9. London: Routledge.
- Zhang Guangda and Rong Xinjiang. 2008. "On the dating of the Khotanese documents from the area of Khotan." Journal of Inner Asian Art and Archicology 3:149–56.

Avestan fraspāiiaoxəðra- and an Indo-Iranian Term for a Ritual Girdle*

RIIZABETH TUCKER

I. fraspăiiaoxodra- and the following word, nidânnaibii-, are Avestan bapax legomenona which occur in Yasna 12.9. Yasna 12.8-9 form a short fravarănē or 'confession of faith' for Zoroastrians within the extended fravarănē that occupies the whole of Yasna 12:

Y 12.8 Mazdaiasnō zarabuštriš frauuarānē... āstuiiē humatzm manō āstuiiē hūzzm vacō āstuiē huuarštzm šiiaobanzm.

Y 12.9 astuitē daēnam (van/him) māzdaitassīm fraspātitacesðram nidāsnaibism x'astuuadabam ajaonīm yā hāstinamcā būliteintinamcā mazistācā vahistācā sraēstācā yā āhsiviš zarabutris.

A traditional 20th century translation, which relies to a large extent on the work of Christian Bartholomae at the end of the 19th century, is that of Mary Boyce (1984:58):

Y 12.8 "I profess myself a Mazda-worshipper and follower of Zarathushtra, . . . I pledge myself to the well thought thought, I pledge myself to the well spoken word, I pledge myself to the well acted act.

Y 12.9 °I pledge myself to the (good) Mazda-worshipping religion, which throws off attacks, which causes weapons to be laid down, by which consanguing-marriage is enjoined, which is just, which of all faiths which are and shall be is the greatest, the best, the fairest, which is Ahuric, Zarathushtrian.²⁰

These two sections of Yasna 12 are incorporated into the Zoroastrian hussi prayers, beginning jasa mē asunaphe Masala "Come to my aid, O Mazalā," that are recited as the Zoroastrian man or woman unties and then reties the hussi girdle, whose three loops

around the waist are said to symbolise the three ethical tenets of Zoroastrianism 'good thoughts, good words, good deeds' (most often Avestan humaia hüxta huuaršia, but in Y 12.8 humaism mans 'the well-thought thought', etc.).

2.1. fraspätiancedonum nidatmatibicim qualify datinam matedatiannim (acc.sg.f.) 'the visionor religion belonging to the Mazda-worshippers'. These long epithets are not divided in the Avestan manuscripts; but the segmentation of the second, nidatmatibid; is fairly clear, as smatibid is recognizable as a neuter noun, attested in both OAv. and YAv., meaning 'weapon' (Y 31.18, Yt. 13.71, 17.20, Y 57.10, 16, etc.). Its first element is a YAv. veto stem mi-bis, a prefixed root aorist stem, continuing IIr. *mi-dibid *vetodown'. Thus the whole compound represents a well-known inherited type of Rektioni-hompositum where the verbal first element syntactically governs the second nominal element, cf. with verbal element based on the root: OAv. drift.artna. YAv. jit.afa-'destroying truth', frazahnodus' 'removing consciousness'; and with verbal element based on present stems: sunt finalish-'overcoming hatred', wanat phinnae 'winning battles', OP PN Vindafarnah-'Finding glosty', etc.; Ved. vilhdafarna- 'making wishes succeed', maddassus- 'supplying goods', unidadassus- 'overcoming hatred', etc.'

2.2. The linguistic analysis of fraspäsiaoxidra- is less clear. Until very recently all modern translations of both adjectives have followed either one or other of the two ancient glosses. The Zand has fraz abgand avoziónib '(from which) strife (avoziónib) is thrown forth (fraz abgand)'. This Middle Persian translation points to an understanding of the first element as the compound verb fra-spā- 'throw forth' and the second element as a noun yearsons, erroneously derived from the root years 'to be in commotion, be in turmoil'. On the other hand, Neryosangh's Sanskrit renders the whole clause as astuve dinim mājdaiasnīm parityaktapratīvādām samnyastašastrām "I praise the Mazdayasnian dini- by which contentious speech (prativada-) has been given up (parityakta-), by which weapons have been renounced." Probably this is based on a different analysis: fraspäiia- present stem 'throw forth' + noun paxadra- ("uxadra-?) 'speech' understood as 'contention'. But neither Av. passabra- nor its Skt. cognate values has the meaning 'contention' nor any pejorative sense.2 Moreover, the fact that the attested present stem of the verb fra-spa-'throw forth' is fraspasia- (Yt. 10.43. Aog. 28), not *fraspāiia-, rules out Neryosangh's understanding of this whole compound.

3.1. The Zand's segmentation into frasp#-ymoxx/ms- is supported by the fact that -s- is not shortened in the sequence -8ys-, and by the formal parallelism with the adjacent word:

[&]quot;I am delighted to contribute to this volume in honour of Sephanie W. Jamison, and to have this opportunity to express my admiration for her scholarity. This article represents a revisid vortion of a paper presence at the 2014 Meeting of the American Oriental Society, held in Portland, Oregon, 2015, and of an earlier paper persented in Cambridge, UK, is 2007, My thanks are due to the editors of the volume; to Oktor Skyarve and to Stanley Inslate for comments after my presentations; and to John Brockington for drawing to my attentions Schaff; (e).

^{&#}x27;staldwatman- (R.V 5.87.5d) appears at first sight to be formally comparable to the Av. type where the verbal first extenset corresponds to a root a corrier atent; but it is more likely to function as a batherwise 'possessing taut rens' (Jamison and Breteton 2014:771).

^aAt Y 29.8 Zararhushtra asks for hudamām... naxabruhisā 'sweetness (or 'well-formedness'?) of speech'.

fraspā-yaoxəðraniða-snashiš-

Both compounds have as first element a root agrist stem in -ā-, preceded by a common Avestan verbal prefix (fra-, ns-).

3.2. However, a noun yaaxidra- is not otherwise attested in Avestan and the second element of the compound cannot be derived from the same root as Av. yaoz- or prefixed ayaoz- 'to be in turmoil' for diachronic phonological reasons: Av. -xadra- continues an IE labiovelar/plain velar stop + *-tro-,3 but -z- of yaoz- must reflect an IE palatal stop (cf. OP yaud-). Bartholomae of course saw this problem with the Zand's gloss, and suggested in an etymological note (1904:1229) that Av. yaacadru- is the cognate of Ved. Skt. yóktra-, an impeccable phonological comparison, cf. Av. raxedra-'mouth, speech': Skt. vaktra- 'mouth'; Av. haxəbra- 'companionship' < Ilr. *sak-tra-. Nevertheless, Bartholomac was not prepared to depart from the Zand's overall meaning, and he suggested a semantic development in Avestan for this derivative from the Hr. root "yuj- 'yoke', translating yaoxadru- '(kriegerische) Anspannung sva. Unternehmung; Angriff'. Hence what is fundamentally a medieval translation based on a false etymology has endured because of the authority of Bartholomae's Altiranisches Worterbuch, where he glosses '(den Angriff beseitigend sva.) bewirkend, dass der Angriff eingestellt wird' (1904.1003). A similar translation 'qui fait suspendre l'attaque' appeared in Duchesne-Guillemin's monograph on Avestan compounds (1936:237).

4.1. If yaccedm- and ydstran- both continue an IIr. noun *yasistran-, derived from the root *yasj-'to yoke, to join', can Bartholomae's meaning for Avestan yaccedm- be up-held at all? The verb yaasj-yasj- occurs frequently with reference to the yoking of animals in Avestan: in the Gisthist usually in metaphors, e.g. Y 30.10, Y 44.4. Y 50.7; but in the Taits more literally, e.g. Y 11.01, 28 Bislim yasjiistit valim melho'y ō' vouru gaoitaoiti *Mikira of the wide-pastures yokes his fast chariot," or Yt.9.2 yaccu. aspa- 'whose horses are yoked', an epithet of the goddess Druväspa- 4 Likewise in early Vedic derivatives from this root normally refer to the joining of animals to work as a team (verb yasj-, yanisti, noun yasja' n. 'yoke'), to the employment of terms in the ritual that work together (yuktāgrāvan- 'who has harnessed the pressing-stones'), or to people who are joined in a friendly alliance, e.g. RV yasj- m/f. 'companion', ynijya- m. 'friend, alli'.

4.2. It is true that Vedic yóga- m. in the sense 'mobilization', in contrast to ksémafixed habitation', is connected with hostile encounters or warfare (see Proferes 2007:17 for a recent discussion), but it refers literally to the action of yoking animals to vehicles when the Vedic tribes were on the move. In other words, the sense of hostility results from an inner Old Indo-Aryan development in meaning that is connected with social conditions in early Vedic India, and it cannot support Bartholomae's translation 'Angriff' for a different derivative from the root "wi- in Avestan.

Moreover, it is necessary to take into account the morphology of yaaxxôra-since, like its suggested Ved. cognate yôtêra-, it must be built with the inherited "instrument" suffix IIr. *-rra- < IE *-rra- and thus belongs to the class of IIr. nominal stems represented by Av. dôtôra- n. 'eye', (riêx.)dayxîra- '(sharp)-fanged', Ved. dânxira- n. 'elothes', baxûra- 'strainer', etc.

5.1. The most frequent meaning of the Ved. cognate yöktra- is 'harness, yoking thong' that is put on an animal. For instance, the two RVic attestations are:

RV 5.33.2b

hárīnām vrsan yóktram aśreh

"You have fixed the yoking thong for the fallow bays, you bull" (Jamison and Brereton 2014:698)

RV 3.33.13ab

úd va ürmíh sámyð hantv / ápo yóktráns muñcata

"Let your wave push up the yoke pins; o waters, let loose the yoking cords" (Jamison and Brereton 2014;515)

6.2. Two scholars have recently attempted to use this normal Vedic sense in translating the Avestan compound frapatitiaceabra. Firstly Kellens (2007;188), who takes the noun datma- in Y 12.9 to refer to the female figure which appears at an individual's death as his/her soul attempts to cross the Cinvant Bridge: he translates "je salue mon âme-voyance... Elle fait tomber le harnaschement, fait déposer l'equipement, soutient l'Agencement en contractant mariage dans la lignée-familiale." Kellens offers no comment, but presumably he is relying on the parallel of the following compound miditamitôli-, and is assuming that the two epithets of the datmit that appear to be morphologically parallel are also parallel in sense and both refer to aspects of laying down the equipment of warfare. But why should there be this tautology, particularly when the third epithet x'atinuatable. 'characterised by marriage within the community' belongs to a completely different semantic sphere?

5.3. Skjærve (2008:301) translates the beginning of Y 12.9 "I present with my praise the daemā of those who sacrifice to Ahura Mazdā, throwing off the harness, laying down (her) weapons." According to Skjærve, there is a chariot-racing metaphor, and the daemā is here portrayed as a victorious horse; be compares the use of root nanto win' in connection with plural daenā in a Tama Happathatis passage:

^{&#}x27;Hoffmann and Forssman (2004.\$60 c , d., g.)

The problematic Avestain noun match: f. has sometimes been connected with mage /my, but the spelling with s-may be spurious, and recently most sholars have related it to math- (see the discussion by Narica 1986 1979). If this connection is correct, match- cannot rell us anything about the semantics of nominal derivatives from mage/my- in Avestain

Y 39.2

alāunam aat urunō yazamaidē kudō zātanamcīt naramcā nairinamcā yaēšam vahebiš daenā vanasnts vā vēnghen vā vaonare va

"Die Seelen der Wahrhaften, wo auch immer sie geboren sein mögen, verehren wir nun, der Männer und Frauen, deren bessere Gesinnungen siegen oder siegen werden oder gesiegt haben." (Narten 1986:44)

However, this sentence does not clearly contain a horse metaphor: surely the better dated can be victorious without being horses, even though there are horse metaphors for people in the Gathat? Moreover, in Y 12.9 why should the action of throwing off its harness 'after the race' (Skjærvo's description) indicate victory for this particular horse/fatnal? The losing horses might be expected to shed their harnesses after the race too!

6.0. In the next part of this paper an alternative proposal about the meaning of Av. yaaxabra- will be pur forward, but the first step in the argument will be to reexamine the meaning of nidamaibil.

6.1. Everywhere else in Avestan snaibis- is a weapon of the truthful human (asauuan-) or a divinity which is used in the struggle against evil, e.g.

Y \$7.16

sraoism...yazamaide...yö rispsm alnim astuuantsm svidBa snaibiia nipäiti
"We worship Sraoša...who protects the whole corporeal world with his upraised weapon."

The most sacred Zoroastrian prayer, the Ahuna Vairya itself, is described as a smaithfat Y 57.22. Hence it seems unlikely that the Mazdayasnian daena would be described as laying down this sort of weapon as this would be tantamount to abandoning the cosmic struggle against evil which is the duty of all followers of the good religion.

6.a. It appears that translators both ancient and modern may have selected the wrong meaning for the first element nikh, even though IIr. "nikh." put' prefixed by ni- must have literally meant 'set down, put down'. The compound verb nikha- is plentifully attested in the Rgreda, but there appears to be only one case where a finite form means 'lav aside, renounce'.

RV 1.121.1d

ní hélo dhattá ví mucadhvam ásvän

"Put aside your anger! Unhitch your horses!" (Jamison and Brereton 2014:371)5

On the other hand there are scores of occurrences where finite forms are used in the sense 'deposit in/on' construed with a locative (all RV translations from Jamison and Brereton 2014), e.g.

RV 3.55.17b

só anyásmin ní dadāti rétah

"He (the bull) deposits his seed in another (herd of cows)."

nidhā- is also frequent as a technical term for installing Agni as priest, e.g.

RV 5.4.3C

ní hótáram visvavídam dadhidhve

"You have installed (Agni) as the Hotr knowing all things."

Also with the locative, e.g.

RV 1.148.rbc

hótāram . . . / ní yám dadhur manusyāsu viksú

"The Hoty... whom they installed ... among the clans of the sons of Manu."

In addition there are some examples of ni-dhā- followed by the dative meaning 'grant, bestow', e.g.

RV 5.41.15a

padé-pade me jarimá ní dhāyi

"Step by step old age has been secured for me."

RV 7.70.4cd

purûnî rátnă dádhatau ny asmé / ánu půrvăni cakhyathur yugáni

"While granting many treasures to us you two have kept in view the ancient

6.3. Exactly the same range of meanings and constructions are found in Avestan, except finite forms of the compound verb never mean 'lay aside, renounce'; just as in the Repreda they regularly have the sense 'deposit, install' + locative, e.g.

Y 4 (8

at hõi vahmõng dəmane garõ nidāma

"And for him let us deposit praises in the House of Song"

Vd. 6.44

kuua naram iristanam tanüm barama...kuua nidabāma)

"Where shall we carry the body of dead men . . . where shall we deposit it?"

The other RV context where Grassmann (1875-663) gave a possible sense 'moderhalten, ablegon' is RV 5,31 racid lim te braitenday printer takhing-/ yir rivigh radushish hidmans undru bux it was trauslaned by Geldone (1891-124) "Solid enter Höhenpronester, die Freunde betteln, die auf dich, Index, heren Wunsch gesetzt haben?" and by Januson and Beretron (2016-608) "Do the formulators, your contrades complain, who have decoursed their desare with you, Individual Contractions of the contraction of the c

Occasionally also the meaning 'hide', which is more frequent for the ppp. nilnita-, e.g. RV 2 13 6c sti tenathim ni dualnue vivisivati "You have hidden a treasure in Vivasvant [= the sun]."

But there are also YAv. passages where midi- is construed with the dative and it means 'grant, bestow', e.g.

Yt. 14.38

tərəsantu...aməmca vərəbraynəmca nıbātəm tanuise * mana

"Let them tremble at the strength and victory granted to myself" (literally 'to my body')

- 6.4. Thus a sense 'bestowing weapons' or 'granting weapons' appears more likely for กลัสล-กลล์พินั-. In other words, the Mazdayasınan สิลลิกส์ arms the faithful for the struggle against evil. If กลัส-กลล์พินี- means 'bestowing weapons', this formally parallel qualifier in no way supports a translation 'throwing off the harness' for fraspa-yaozabna-.
- 7.1. Yet Bartholomae's convincing formal comparison of once-occurring Av. ymaxidm-with Ved. ydkma-need not be abandoned, since the Vedic texts attest a rarer sense for the latter, which so far appears to have escaped the notice of Iranian scholars. In Vedic ritual the word ydkma- is a term for a cord of woven munipa-grass, which is tied around the waist of the yaipmana-5 wife, or around the waist of a bride at her wedding.

The passages relating to this ritual practice have been collected and discussed by Stephanie Jamison in her book, Sacrificed Wife/Sacrificer's Wife (Jamison 1996:42–50). For instance, yoktra- in its ritual sense occurs in Apastamba Srauta Sútra 10.9.13 (dikiá of the Apastamba):

śaramayī maunjī vā mekhalā trivrt prthvy anyataratahpāšā tayā yajamānam diksavati voktrena patnīm

"A mekhala made of reed or munja-grass, threefold, wide, with a noose at cither end; with that he (the priest) consecrates the sacrificer; with a yoktra (he consecrates) the wife."

On the basis of this and other passages, Jamison argues that the wife's yoktra-, which she wears for the duration of the fift- or more complex ritual such as the New and Full Moon sacrifices, provides the woman with a temporary npanayana- and qualifies her to participate in the Smalla rites alongside her husband. There are in fact many

more references to this 'girdle' than a mere word-count of the occurrences of ydern eveal. Often its use must be deduced from a form of the compound verb sam-nab-, the regular term for fastening on the girdle, or from the noun samnabana-, which is derived from this verb, e.g. Atharvaveda Saunaka Samhitā 14.1.42 (wedding hymn, verse addressed to the hindle)

āšásānā saumanasam prajām pustim saubhāgyam rayim patyur anuvratā bhūtvā samnahyasvāmriāya kam

"Hoping for possession of good thoughts, offspring, prosperity, good fortune, wealth, having become avowed to your husband, gird yourself for immortality."

Compare Apastamba Grhya Sūtra 2.5.12 (instructions for the bridegroom);

parisecanāntam krtvottarābhyām yoktram vimucya tām tatah pra vā vāhayet pra vā hārayet

"Having performed (the marriage rites) ending with the sprinkling (of water), and having untied the yoktra with (recitation of the) two next (verses), he should then either convey her forth in a vehicle (to his house) or bring her (to his house in some other way)."

If such passages are linked together, it becomes apparent that the wife's/bride's ritual yolkera- can be traced back in time at least as far as the Atharvaveda and Yajurveda Sambrids.

- 7.2. Therefore on the basis of this ritual meaning shown by the Vedic descendant of Ilt. "yaukkurs., it may be suggested that Av. yaukurbur- also meant 'ritual girdle' and that this noun is an archaism in Avestan, preserved only in a once-attested compound of inherited structure.
- 8. In an Avestan context, particularly in a context such as the Zoroastrian confession of faith, the 'ritual girdle' in question must be the Zoroastrian knstī, or its proto-type at a very early stage in the development of the religion. Another Avestan noun, aišiiāhhana-n., has traditionally been identified as a word for the Zoroastrian knstī girdle (Bartholomae 1904;98); cf. Darmesteter 1892—132.443 n. 13, Modi 1922.1733). But this can be explained as a neologism⁶ derived from the compound verb aißi-yab-'to gird on', vpologically comparable to Vedic samnahana-from sam-nab-'to tie

There is an explicit statement to this effect at TB 3 3,3.2 railed his plantingua reasonassignosme. This (good ang) is the mistakenio of the two for the wide." The same Scharfe (1999;10:0, no.6) takes with both Jamuson (1909;20:7, 190) and 11 P. Schmidt (1907;20) appears to be whether the wife's gordle should be equated with the mebhalia or spatrite, not whether it represents a temperary alpumpuson. On the other hand, an interpretation of the paint's ritual yakira: as the 'noise of Varinga' and a symbol of the woman's restricted status in Vecks, ritual way not frevared by F. Ni. Smith (1909). But see the counter-taiguments of Jamuson (1906-64:=7), which can be supported by the evidence of other contexts where maintras containing nermanplate-refer to an assignoism cord, or g. TS 4,2-1,1 entroplys RVI 2-4,3-16,0 and attention invariant plant naturally distributions are plant naturally challed maintrain traitables for the release of the symposium from the cord which links him to the whole-pot contain my the fire m the defined of the Agrangians from the cord which links him to the whole-pot contain my the fire m the defined of the Agrangians of the symposium of the

^{*}m@udphmme-can also refer to a cord encircling other sorts of objects at its earliest Avestan occurence (Y 9.36) it is the band around the ritual Haoma stalks, and its Middle Pensin cognate ampidant is the date-palm cord which fastens together the sacred barsom twigs (Korwal and Boyd 1991/24, cf. Scharfe 1999:109-10).

[&]quot;The lemma yabs n. Cidrac, Gurretschinus' found in Bartholomuse (1904;1290) can be left out of accounts a Schmidler (1972;17) and Kellens (1974;19-5) both suggested independently that at Ye. 18.14, anany yabs should be read. Later culture vary in interpreting this shapes *Egomenom* as either a noun or an adjective However that may be, like assimiphanes, it clearly represents an inner-Avestan creation based on the regular verb to got on', and, wapt.

together', which is employed in some Vedic passages (e.g. Apastamba Śmuta Sūtra 9.2.1) ustread of yūtra- MP kustīg is also a new coinage (with no known Old Iranian antecedents and no clear etymology), and it appears that it was only with the creation of this word that the term for the unitaire's girdle became fixed in Zoroastrian texts.¹⁰

9. If yaacaður- means 'ritual girdle', how should the first clement fruspa- of fruspa-aacaðurs- be explained' Surely the datua- cannot be portrayed as throwing off her ritual girdle' Just possibly, there could be a reference to the untying of the kusn girdle while the prayers are recticed. According to present-day Parsi practice, the ends of the untied kustā are flicked forward, a gesture which is explained as protecting against evil during the time when the adherent of the religion is without the protection that his or her girdle normally affords (Modi 1922:179; Boyce 1979:13). If this was part of the ancient practice, it might conceivably be described by the first element fruspa- throwing forth'. On the other hand, a linguistic explanation probably provides a better solution. Avestan contains evidence for two homophonous verbs with the form fruspa- which, however, are distinguished by their morphology." As noted above, Avestan fruspa- 'to throw forth' has a present stem fruspa- (et. spaintin, apa.painta, etc.), e.g.

Yt. 10.43

pascaēta dīš fraspaiseiti mibrō yō vouru,gaoisaoitiš

"Then Mithra of the wide pastures throws them (the enemies) forth"

On the other hand, a reduplicated present middle stem frs...sippa- occurs in three Tash passages but it means 'display, wear' (Humbach and Ichaporia 1998:142 'parade, show up'), e.g.

Yt. 5.127

fra gaošāuuara sīspəmna caθru.karana zaranaēni minum baraţ huuāzātā arəduuī sūra anāhita

"Noble Ardvî Sürā Anāhitā wore a necklace, displaying four-cornered golden earrings"

Yt. 17.10

aēšam vantāŋhō . . . åŋhmte . . . frā gaošāuuara sīspəmna caθru.karana minuca zaransiō.pisi . . .

"Their wives...sit...displaying four-cornered earrings and gold-adorned necklaces..."2 Beside the present fraepailar 'throw forth' there is an t-aorist (Kellens 1995:65). Hence the stern fraepa-which forms the first element of fraepailaeceobra- may represent the aorist that corresponds to the present fra-tupa-'display'. If so, fraepailaeceobra-must mean 'displaying/wearing the rutal girdle'.

- 10.1. Some striking parallel details in the ritual employment of the kusst girdle and the Vedic patnt's girdle may be noted:
- (i) The kust's received by Zoroastrians at an initiation ceremony (Parsi nanjote, Irani Sedme Pushun/Sedreh Pushi) which qualifies them to participate in ritual. Jamison (1996:48–50) has shown in detail how the Vedic putn's yoltera symbolizes an initiation which allows her to take part in Smutae titual.
- (ii) The kusti is tied around the waist, under the clothes but over the rudreb (the cotton sacred vest, also received at nanjote). The patni's girdle is tied beneath her upper samment but outside of her lower one (Apassamba Strauta Surra 2.54—5).
- (iii) The three loops of the kusti are said to represent 'goods thoughts, good words, good deeds'. The mantrus associated with tying the yoktrus- link it with two similar concepts: Taittiritya Samhitā 1.1.10e, cf. Kāṭhaks Samhitā 1.10, etc. (New and Full Moon Sacrifices, verse spoken by the sacrificer's wife; AVŚ 14.1.43, addressed to the bride, is a variant):

āśāsānā saumanasam prajām puṣṭim saubhāgyam tanūm agner anuvratā bhūtvā samnahye sukrtāya kam

"Hoping for possession of good thoughts, offspring, prosperity, good fortune, having become avowed to Agni, I gird myself for good action."

xo.a. The Zoroastrian kust has frequently been compared to the sparita or ynjiopa-pita of twice-born Hindu males. However, Scharfe has argued (1999; 2002:105-11) that the correct comparison is with the mebhalia, bestowed on the immunation and worn by the ynjamatna during rituals. Both the kusti and the mebhalia are knotted around the waist and Scharfe believes that the ceremony of investiture may have originated as a rite marking puberty in both the Iranian and Indian traditions. He also takes the view that the girdle was originally the prerogative of male initiates in both India and Iran, but the arguments on the Iranian side appear quite weak. It is true that the Avestan passages where aibi-yibi-'to gird on' or aibiainhama-'girdle' occur refer to adolescent males, but Scharfe does not set these passages in context;'il nor does he consider the background of the history of Zoroastrianism where the kusti is traditionally worn by women as well as men, or the many passages of the Avesta which show equality between men and women.¹⁴

¹⁰ Scharfe (1999 III n.74) speculates that kunig was the name introduced for the woven woollen girdle with 72 threads, symbolising the 72 chapters of the Taina, which differed from the old girdle made of reed like the Indian mekhalid.

[&]quot;From a diachronic point of view there may be a single root spin-'move, throw? < Proto-Ir. *sinalf-(Cheung 2007'369-70), but the two different present stems are clearly differentiated in meaning in Avestan.

¹³Yt. 3.7 fin srina zuda uspata. which contains a finite form from this present stem occurs in a sentence with several textual problems, and the meaning of the whole sentence is disputed.

[&]quot;For instance, Yt. 8.14 is about one of the meramorphoses of the male yazata Tistrya, and naturally when he assumes human form he becomes a young man.

¹⁶For instance, OAv. heccaorustă na nă wă nărri vă xintiă "Would that a good ruler, either a man or a woman, might rule over us" (Yasna Haptanhaus 41.2), yadă ât ută nă vă năiri vă vardă hatilim abă haţ

10.3. One might reconstruct a more complicated diachronic scenario for the sacred graftle* on the basis of correspondences between the function of the Vedic patm?s yokirna and the Zoroastrian knuff such as those outlined above in \$10.1. At a prehistoric Indo-Iranian date a ritual girdle that was tied around the waist was called a yaukikna, literally 'instrument of yoking.' In Iranian this word survives only in the archaic Avestan compound fruspainanceòn-" but elsewhere in Avestan it was replaced by nathidiphana." and later by MP hustiff. In India the inherited term "yunkirn- was replaced by mekhaha for brahmin males, bur yöhrts survived as a term for the temporary girdle of females on the occasions when they played a part in ritual. From a linguistic point of view the limited survival of the IIr. term "yunkirn- would be a classic case of an archaic word preserved only in composition in Avestan, and in a secondary function in Vedic, while in both languages new terms took its place in the primary function (or what in India became the primary function as the result of the development of Vedic ritualism centred on the male yajanuñana).

This reconstruction is proposed tentatively, but if the arguments put forward in this paper which build on Jamison's work are accepted, it is possible to conclude that there is linguistic evidence for a prehistoric connection between the rirual girdles of India and Iran: the equation Ved. yoktrn: Av. -youcobrn- points to an IIr. term "youktrn- that was continued in the language of both groups of peoples."

11. As far as the Avesta is concerned, Y 12.9 describes the Mazdayasnian Religion by a series of defining characteristics which differentiate it from other religions "that are or shall be." One of these is the wearing of a ritual girdle. If this short "profession of faith" contains not only a reference to "good thoughts, good words, and good deeds"

(in Y 12.8), but also a reference to the Zoroastrian girdle itself, this can help to explain why Y 12.8–9 was incorporated in the kusti prayers.

The whole of Tanna 12 is in Younger Avestan language (with a few superficial proeudo-Old Avestan" features), but it has long been recognized that this more extensive fransariae includes Old Avestan elements, e.g., almain macdia vispā robiā analmis "i attribute all good things to Ahura Macdā." It is clear that the kusīs prayers have been expanded at various dates, not least because they are no both Avestan and Middle Persian; but because of the linguistic archaism of franşhinacozòra- and midinmathi-, it might even be suggested that Y 12.8-9 continues the original kernel of the kusīt prayers.

References

Bartholomae, Christian. 1904. Altiranisches Worterbuch. Strassburg: Trübner.

Boyce, Mary. 1979. Zoroastrians: Their Religious Beliefs and Practices. London: Routledge & Kegan Paul.

——. 1984. Textual Sources for the Study of Zoroastrianism. Manchester: Manchester University Press.

Cheung, Johnny. 2007. Etymological Dictionary of the Iranian Verb. Leiden: Brill.

Darmesteter, James. 1892-3. Le Zend-Avesta I-III. Paris: Annales du Musée Guimet.

Duchesne-Guillemin, Jacques. 1936. Études de morphologie iranienne I: Les composés de PAvesta. Liège: Faculté de Philosophie et Lettres de L'Université de Liége.

Geldner, Karl F. 1951. Der Rig-Veda. 4 vols. Cambridge, MA: Harvard University Press.

Grassmann, Hermann. 1873. Wörterbuch zum Rig-Veda. Leipzig: Brockhaus.

Hoffmann, Karl, and Forssman, Bernhard. 2004. Aperische Laus- und Flexionslehre. 2nd ed. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.

Humbach, Helmut and Pallan Ichaporia. 1998. Yasht 19 of the Younger Avesta: Text, Translation, Commentary. Wiesbaden: Harrassowitz.

Jamison, Stephanie W. 1996. Sacrificed Wife, Sacrificer's Wife: Women, Ritual and Hospitality in Ancient India. New York: Oxford University Press.

Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigneda: The Earliest Religious Poetry of India. 3 vols. New York: Oxford University Press.

Kellens, Jean. 1974. Les noms-racines de l'Avesta. Wiesbaden: Reichert.

- . 1995. Liste du verbe avestique. Wiesbaden: Reichert.
- . 2007. Études avestiques et mazdéennes. Vol. 2. Paris: De Boccard.

Kotwal, Firozc M., and James W. Boyd. 1991. A Persian Offering: The Yasna A Zoroastrian High Liturgy. Paris: Association pour Pavancement des études iraniennes.

when "And just as a man or a woman knows what is true, so (he/bk knows) what is really good" (Tame Hapanphain 13) (almanup finausalit mappinet intermapting Jananusalit" we conclup the finaudic of the righteous, both of men and of women" (Tame Hapanphain 13,1), which is repeated in a YAv. variant at Yao, " Yi 10, a, Yi 13,1-3; YAV. adadis wordy is nousife drawinger and inspareny walk aroun betastives inporting attainfaint and a men and data-gain whatdaintaint waters dat space a noting some terrantia royffina data-gain faint to me, good very strong Drawings, in the boos on both I may usups good onlock Hausands who shall have faith in my vision which is Mazda-worshipping and shall understand it, who shall give good fame to my commoning" (Ye. 20, 22, Zartuchister, peaching about the wife of the patron).

[&]quot;The fact that fragilations/bit—in its one occurrence qualifies dainet, which is a feminine noint, and may, according to Kellens (2007;18) and Skjærvo (201;13), be personified as 'the Maiden at the Cinwant Bridge', might be taken, no conjunction with the Vedic paint's riddrin, to point to a separate lift, erem for a woman's girdle But as this is the only context in which Av. yourabin—is attested the evidence is not sufficient to draw such a condission.

[&]quot;And auus yah, if this is a noun rather than an adjective at Yt. 8.14 (see n. 9).

[&]quot;Yet another term for the Vedic paras's gridle, ridms, which occurs at e.g., \$\frac{1}{2}\$ 1,3,1,4, has been explanted as a replacement of "yidms, copynate with \$\frac{1}{2}\$ (so, as a result of blending with rainfiad and ridmid (Scharfe 1999-10), 11s, with reference to Wackernagel). But in contrast to the connection between Ved. ridmid "yidms" and \$\theta\$ and all another and \$\theta\$ and \$\theta\$ and \$\theta\$ are different mornisal sterms derrord from the same IE root, the comparison proposed here between Ved. yidms and \$\theta\$ \theta\$ -giseables is more exact, and makes at possible to reconstruct as saude lexense.

- Modi, Jivanji Jamshedji. 1922. The Religious Ceremonies and Customs of the Parsees. Bombay Union Press.
- Narten, Johanna. 1986. Der Yasna Haptanhäiti. Wiesbaden: Reichert.
- Proferes, Theodore N. 2007. Vedic Ideals of Sovereignty and the Poetics of Power. New Haven: American Oriental Society.
- Scharfe, Hartmut. 1999. "The sacrificial cord of the brahmins." Studien zur Indologie und Iranistik 22:80–117.
- ----. 2002. Education in Ancient India. Leiden: Brill.
- Schindler, Hans Jochem. 1972. "Das Wurzelnomen im Arischen und Griechischen." Doctoral diss., University of Würzburg.
- Schmidt, Hans-Peter. 1987. Some Women's Rites and Rights in the Veda. Poona: Bhandarkar Oriental Research Institute.
- Skjærvø, Prods Oktor. 2008. "The horse in Indo-Iranian mythology." JAOS 128:295– 202.
- . 2011. The Spirit of Zoroastrianism. New Haven: Yale University Press.
- Smith, Frederick M. 1991. "Indra's curse, Varuna's noose, and the suppression of the woman in the Veduc Śrauta ritual." In Roles and Rituals for Hindu Women, ed. Julia Leslie, 17-45. London: Pinter.

Iranian Anāhitā- and Greek Artemis: Three Significant Coincidences*

ANA VEGAS SANSALVADOR

I Introduction

The Iranian deity Anahinā- (adapted in Greek as 'Avarns, 'Avarns) shares certain relevant features with different Greek goddesses. In fact, the Greeks associated 'Avarns' with Aphrodic and Athena' on the strength of a series of common peculiarities: Anahinā-, like Aphrodice, is a fertility goddess and, like Athena, she is a virgin, whereas her role as a midwife brings her close to Eileithyta and Hera.³ It is, however, Artemis with whom she shows the most striking similarities, since both divinities are depited as maidens, spirits of moist places, promoters of fertility and helpers in childbirth. The assimilation of the Iranian goddess to Artemis was common in Cilicia and Lydia.³

The most characteristic features of Anáhizā- are outlined in Tait 5 (Ardvīsūr Yast, or Abān Tait "Hymn to the Waters"),* dedicated to the goddess, which has been accurately edited and annotated by Oettinger (1983), and which remains the main source for any research about her profile. The goddess bears the triple name Araduui-Surit-Anáhizā-exclusively in Tait 5, while other sources offer two variants of her name.

[&]quot;I would fake to thank Velizar Sadovski (Vienna) and José Luis García Ramón (Cologne) for stimulating suggestions from which this paper greatly benefited. Final responsibility of course remains my own. We follow Oettinger's translation of Talt's. Only the name of the goddess, translated by Oettinger, remains untranslated in our version.

[&]quot;Asserts associated with Aphrodite Oseasia by Herodotus (1.111), although the historian mistakes Mripa.

"Asserts, and by Bensus (apaid Clem. Al. Prott. 5.65.3). The Iranian goddess was also associated with Atheria (Plus. Art. 3.1).

 $^{^4}$ Anāhnta- has beautrīul white arms (Yr. 5.7d srira va asjhra bāzaussa // auruša), just hke Hera hausishnog (II).

¹Str. 12.2.7; Paus. 3.16.8. In fact, "Артерия 'Азийчя was worshiped in Lydia (Paus. 3.16.8), in Cappadocia (Str. 11.8.4) and Armenia (Str. 11.8.4) and Armenia (Str. 11.14.16, 12.3.37)

[&]quot;The resistation of Tail's dates to the time of Artaseries II, who spread Análntas's cult throughout the Achaemend Empire. In fact, Artaseries II broke the long-established tradition among the Achaemend kinga, who invoked only Ahuramazada in their inscriptions, by also calling on Mithra and Análntas' See Windischmann 836/88-1-04; Boyce 1975-82 216-27.

namely YAv. Araduus-ap-'Araduus-river', and OP Anābita-.' The Greek form 'Avairus' seems to be the adaptation of early Middle Iranian "Anābit.

The present paper will focus on three features shared by the deities Anāhitā- and Artemis, namely their function as helpers in childbirth (\$2), their connection with rivers and marshy grounds (\$3), and their being "unbound," i.e. virgins (\$4). Taking into account these aspects of Greek Artemis as a whole—which, in my opinion, have not yet received the attention they deserve—will shed light on the personality of Iranian Anāhitā- and reveal that the similarities are even more precise than currently believed.

2 Upright position and help in childbirth

Artemis and the Iranian goddess are described as "upright, straight." It is irrelevant for our purpose whether this feature is understood literally or metaphorically as "behaving correctly." Upright posture is connected with the mulwife and κουροπρόφος role performed by both goddesses.

2.1. The Iranian Araduui- Süra- Anahita- is depicted as a girdled, upright maiden:

Yt. 5.64 a-d

upa tacat arəduui süra anāhita // kainīnō kəhrpa ərīraiiā // alamaiiā huraodasiā //
uskāt yāstaiiā этэхшаівіsō
"herbei lief Arədusī- Sārā- Anāhītā, in Gestəlt eines schönen Mödchens, das

"herbei lief Aradunī- Sūrā- Anāhitā- in Gestalt eines schönen Mädchens, das tüchtig, gut gewachsen, hoch gegürtet und aufrecht ist."

According to this description, the goddess is girdled to keep her body upright (gen. yanaiiā rrzsuusithii). YAv. fem. rrzsuusithi: 'upright' (*-wyt-ib-') matches the meaning of Gk. '0θθίας (\$2.2). Another feature of the goddess, probably the most characteristic one, and certainly connected with her standing upright, is that she makes childburth easier:

Yt 6 20

yā vîspā hāirišīš // huzāmstō daðāits

"welche alle Frauen leicht gebärend macht"

Yt. 5.87d-e

θβąm carástiš zizanāitiš // jaiδiiānte huzāmīm

"dich werden die gebarenden jungen Frauen um gute Geburt bitten."

The features of Aroduut- Sūrā-Anāhitā- just referred to find a close parallel in the figure of Artemis, especially of "Αρτεμις 'Ορθία.

Lac. 'Opfie, first attested in a votive dic dated to the 7th century 8c" and occurring frequently as an epithet of Artemis in later inscriptions, is a derivative of bibb's 'upright' (Ved. brulbris-, Av. aradusa-, Lat. ardusa' steep')' and means 'the upright' (goddess)'. Opfie, 'Opfie, 'Opfie, 'Opfie, 'Opfie, 'Opfie, 'Opfie, 'Opfie, 'Opfie, 'Indiana' of Faofbaorie, which had become unintelligible because of its isolation in Greek. The fluctuation of digamma in Laconian inscriptions and the occurrence of variants like Faofbeia are part of this replacement process." Otherwise the assumption that Artemis was upright is reflected in the popular belief, reported by Pausanias, that the image of 'Opfie was standing upright when found:

Paus. 3.16.11

καλούσι δὲ οἰκ 'Ορθίαν μόνον ἀλλὰ καὶ Λυγοδέσμαν τὴν αὐτήν, ὅτι ἐν θάμνω λύγων εὐρέθη, περιευληθείσα δὲ ἡ λύγος ἐποίησε τὸ ἄγαλμα ἀρθόν

"They call it not only 'Ορθία, but also Λυγοδέσμα ('having a willow as binding'), because it was found in a thicker of willows, and the encircling willow made the image stand upright."

This description recalls the literary picture of Anthina-being girdled (ushāt yātanitā high girdled' Tr. 5:64) with a belt to keep her body upright. A third formal variat 'Ogbaria' (: \$666a 'sct upright, restore to health') fits into the pattern of the Greek popular belief that Artemis restored women to health after childhirth and was

^{&#}x27;The two Old Persan variants of the goddess's name are a-na-ha-s-ta /imahnta-/ A* Sd sf. (with s- like Elam an-na-hn-ud-da and Akk. a na-ah-s-ta') and a-na-hn-ta /anāhb*ta-/ A* Sa sf., A* Ha s, 6. Cf. also Arm. Anahn and ModP. Nahāt Morming Star, Venus:

Str. 11 8 4; 14.16, 12.3.37, Plu Art 3, Clem. Prost. 5.65 3.

a.a. In the famous sanctuary of Artemis near Sparta, the goddess was worshiped as 'Oothia 'the upright'. The dedications found at the site ofter numerous variants of the epithet:' with and without initial digamma, and with different spellings of the final syllables, written (- asma), (-asa), (-asa), (-asa), (-asa), which may conceal two different forms or simply reflect the coexistence of dialect (in part archaizing), komá, and koiné. The oldest dedications show the form Fosharia' promoter of fertility' (a derivative of "yorh"a') and variants (without a mention of Artemis). These forms are cognate with Ved. nárábate 'grows', nárábati 'makes grow', Av. narsdaiti 'makes stronger' and may be interpreted as 'promoter of growth', referring to the fertility character of the goddess.

⁷Cf. Dawkuns 1939. In the sanctuary, the ophrion celebrated initiation rates, which included choose stealing, fleening, and being whipped (housearthrosen) when caught. See X. Rept. Lett. 2.07, Plu. 152, 181, Intl. Intl. 239c., Pluss. 3-16.7-11. These rates point to the child-rearing profile of Aratems, cf. some epithers of the goddess such as monorables (Orph. Irms. 3-68, 100.d. 5-73) or madernobles (in Messexta, cf. 1281a., 4-3-6.6).

Whether these forms are to be traced back to "(H)uend"- or "uerHd" - 'grow' is irrelevant.

⁹SEG XXVIII 409 For further details, see Kilian 1978:219-22.

¹⁰CE. Bader 1980:37—61. The absence of y- in Vedic and Avestan, as well as in Lann and in Gk. isolic_s, may be due to dissimilation in "2pHd" yo-. Initial y- is preserved in Myc. 190-11-yo | tworthint | C ama's name, Rungh 1967:19 B. 377), Cret. Bidolic_s, Arg. Bodiopiosog and in the Elean gloss Soprior ormation (Histch).

[&]quot;For a survey of the variants, their chronology, and their interpretation, see Vegas Sansalvador 1996:275-88.

¹⁰Cf. Hdt. 4.87.2 ('Oρθωσία); Pi. O. 3.30, schol. ad loc. 542-b; Lyc. 1331; Hsch 'Oρθωσία ἐπώνομον 'Αρτέμι-δος.

therefore called 'Ορβωσία, cf. sch. 54d Pi. O. 3.30 ήτοι τῆ ἀρθούση τὰς γιναῖκας καὶ εἰς σωτηρίαν ἐκ τῶν τοκετῶν ἀγούση ('Ορβωσία) τῆ 'Αστέμιδι.

The image of the goddess helping in childburth is widely reflected in literary testimonies (E. Hipp. ic); P. I. Thi. 1944b; Call. 3,21) as well as in the epithets Λαχ(ε) iα 'mdwife' (E. IT 1097, Supp. 938). ¹¹ Ελλαρρί who grants a good burth' (Gonnon, Thessaly), '* 'Ωκολοχεία 'who grants a quick birth' (Orph. hym. 36.8) and Ειλείθνια (Nonn. 41.4414). ¹¹ identical with the name of the goddess of Childbirth. Moreover, Artemis we alled 'Iφογένεια 'strong-born' in the sanctuary of Brauron, where the clothes of the women who had died in childbirth were dedicated to the goddess:

E. IT 1464-7

(Ἰφιγένεια) οὐ καὶ τεβάψη κατθανούσα, καὶ πέπλων

άγαλμά σοι θήσουσιν εὐπένους ὑφάς.

ας αν γυναίκες έν τόκοις ψυχορραγείς

λίπωσ' ἐν οϊκοις

"You (Iphigenia) will die there and be buried and they will dedicate to you adornment, finely woven robes which the women who have died in childbirth leave in their homes."

Agamemnon's daughter Ἰδργένεια was a priestess of Artemis and seems to be a hypostasis of her, as suggested by the gloss Ἰδργένεια 'ῆ Ἄστεμις (Hsch.) and by the use of her name as an epiclesis of the goddess: καὶ ἸΑρτέμιδος ἐπίκλορου Ἰδργενείας ἐστὶν ἰεδοῦ (Paus. 2.4:1.).

3 Connection with the waters

There is a striking point of comparison between Artemis and Aridnui-Sūrā-Anāhitāin their respective associations with waters. In the case of the Iranian goddess, this feature is clear, since she is the personification of a river; and the same applies to Artemis as a goddess of the waters, who also has the profile of a river deity. Some concrete points deserve to be stressed.

3.1. The Avestan Araduui-Sürä-Anāhitā- appears in Yalt 5 as a river goddess, irrespective of her origin, either heavenly or earthly, or both: 16

masıtam dürü<u>t</u> frasrütam // ya asti auuauuaiti masō // yaba vispå imå äpō // ya zəma paiti fratacinti

"die ausgedehnte weithin beruhmte, die von ebensolcher Lange ist wie alle diese Wasser hier (zusammen), die über die Erde dahin vorwärtslaufen"

Araduat- may reflect her aquatic character: it is usually interpreted as 'moist'" and connected with Vocl. ard ~ pt²-scatter, disperse, shake' (cf. Vocl. árdati' start moving''n. PIE **Hend**). For the semantic shift from 'start moving' to 'flow', cf. Vocl. rindii 'scis in violent motion, whirls', Gk. δοδιω 'whirl' as against Vocl. rifute' flows', Russ. rimute' stream, flow' ('by-refl-). γο Alternatively, araduati- is interpreted by Octtinger (1083:348) as the feminine of an unattested Iran. "ardu- from PIIr. "ardu- 'scattered' (Vocl. ar ~ r) or from PIIr. "ardu- 'prosperous' (Vocl. arth ~ rdh).

The close semantic similarity between the name of the Iranian Araduui- and that of the Indian water goddess Sainanuit- having pools' led Lommel (1954:405-11) to assume the common origin of both deities and, consequently, the existence of an Iranian counterpart of Sainanuit-, which should be identified with Araduui- Sūrā- Anāhitā-. According to this suggestion, all three names of the goddess attested in Tātā 5 are attibutes, whereas her genuine name was "Harahipati, which disappeared, eclipsed by its epithets. But the interpretation of the goddess's name Araduui- as belonging to PIIr. "Hrata- 'thrive, promote' (cf. Av. aradat 'he must promote', YAv. aradan- 'who promotes') cannot be definitively ruled out. In fact, a name meaning 'the promoter' could fit the life-giving aspect of the goddess.

3.2. As a goddess of the wild, Arremis is related to fountains, rivers, marshes, and waters in general. Most of her sanctuaries were located at springs³¹ or near rivers³³ or on marshy grounds. Like the Iranian Arabust-Sarat-Anabista- and the Indian Sáras-watt-, Artemis is a river goddess as shown by some of her epithets: Alderaía (cf. 'Alderaía (cf. 'Alderaía, cf. 'Artemis is a river goddess as shown by some of her epithets: Alderaía (cf. 'Alderaía, cf. 'Artemis is a river goddess and controls the marshtes (Bermio 'Aldera' Arauth Ajuses, Fi. P. 2.7.). Furthermore, Artemis protects and controls the marshtes (Bermio 'Aldera' Arauth Ajuses, E. High, 238) and harbors, being thus called Aquenorning (Call. 3.259). She also appears helping sailors by securing fair winds and a safe trup, as described in the myth of Iphtgenia's sacrifice (E. Id 83–93; 1596-7).

¹¹Cf. also IG II¹ 4547, IG IX 2.14τ (Schwyzer 1923:10. 551), IG IX 2.142, Helly 1973 II 174. There is also an Ionian variant Λοχείη, cf. Orph. hym. 36 3, and Λοχείη, cf. IG VI 960.10

¹⁴ Heliy 1973: II.173

Of Orph hym. 2.12 Ellaitha as an epithet of Artemis is also attested in Thebes, Orchomenus, Thespiae, Chaeronea, and other Bocotian ortics (Schachter 1981-94, 98, 10)-61.

On tempts to identify this river with the main river (Oxus or Arxanes) in the region called Av. Harazenut (OP Harahunati, Bartholomae 1904-1788) and known to the Greeks as 'Apagosies, have not come to any definitive conclusion. A survey of the much-debated question can be found in Oettinger 1981;371-5

Yt. 5.3a-d

¹³ Bartholomae 1904:194-5; Reschelt 1911:100.

[&]quot;Ved árdati 'ins Schwanken geraten', cf. Gotő 1987 102-4.

¹⁰ Cf. Gotó 1987:102. "Die genaue Bedeutung der Wz. and/nd- 1st schwierig zu bestimmen."

²⁰Cf. LIV 5.8. *h.rijH- Ved ptl4- 'humidity' has been adduced as evidence for the semantic shift from 'fly away, vanish' to 'be wet' (Johansson 1893/27-8), but its meaning remains uncertain (Oettinger 1983/349).

Oettinger 1983'350 ("die forderliche"); Skjærvø 2006 xxiii ("rich in life giving strength").
 For instance, in Corinth (Paus. 2,3,3), Mothone (Paus. 4,3,3), Aulis (Paus. 9,19,6), and in the Laconian

towns of Dereion, Manos, and Teuthrone (Paus. 3.20.7; 3 22.8; 3.25.4).

¹³The sanctuary of Arternis Τρικλορία in Patrae was built by a river named 'Αμείλυγος 'relentless' because of

the sanctuary or Arternis 1900 Ageing in Patrae was built by a river named Amenagos relentless' because of the human sacrifices which took place there in honor of the goddess (Paus. 7.19.4).

²⁴ Paus. 6.22.10. Cf. also the variants 'Aλφειούση and 'Αλφειούα (Str. 8.3 12), 'Αλφείωα (sch. Pt. N 1.3). See Covini forthcoming: 1 5, 7-11.

Especially interesting for our purpose are two epithets of the goddess that are denvatives of λίμου 'marsh'31 (cf. λιμήν 'harbor', secondarily 'square', ³⁴ λεμμών 'moist place, meadow') and δλος 'id.'. The goddess bears the surname Λιμωδιτκ' (Artemis) of the marshes' in different Laconian places, namely Epidaurus Limera (Paus. 3-23.10). Bocae (IG VI.952), a willage at the Messenian border (Paus. 4-2, 3), and Sparta (IG VI 235, 226), but also in Patrae (Paus. 8.20.8), Tegea (Paus. 8.33.11), and Troizen (sch. Eur. Hipp. 133). The variant Λιμωσία is attested in Sparta (Paus. 3.14-2)³⁴ and Sicyon (Paus. 2-7.6). Moreover, according to Pausanias (3.16-7), the sanctuary of Artemis Orthia was located in Λίμων (cf. λίμων 'βοοι (lake'), a marshy place near Sparta

The epithet of Artemis in Messenia, 'Eλείa 'marshy' (Hsch.)³⁰ (*sels-ip/ā-, cf. YV sarayā-), associates the goddess with marshy ground, which is a common toponymic moth (cf. PN Myc. ε-r-r-i *PEle*i/, also "Ελος in Laconia). Of. the divine name Ved. Sárasvatí- and the Itanian place-name YAv. harax* aisī-, OP [harnhuvati-] (: 'Αραχω-σίο), on which see §1.1.

On the strength of the facts quoted above, Artemis has a clear connection with waters and marshes, sharing this character with the water deity Aradusii-Sārā-Anāhītā-Morcover, the epithet 'Ebeiso of Artemis matches semantically the putative Iranian theonym "Harahinati-, who may lie behind the water goddess of Tāsīt 5.

4 Virginity: an unbound goddess

4.1. The most characteristic name of the Iranian goddess, Anahita-, has been interpreted either as 'stainless, immaculate'' or as 'unartached'." In fact, both meanings are not too distant from each other, and may be reduced to one, on the assumption that purity is connected with (or is the result of) absence of contact.

It is generally accepted that Anahita- is a compound with privative ano, but the

An alternative explanation for the theonym analatid- as 'not bound', i.e. as a privative compound *an-abita-, as proposed by Hertel (1927:20), seems fairly convincing: the second member "ābita- (itself a compound ā-bita- 'bound', with ā')' conceals Plr. *bita-, fem. of Av. bita- 'team (of animals), yoke': 'Ved. stat- (PlE *shz-i-no- or *shzta-), ps the verbal adjective of PlE *shz-sip-(j- 'bind, attach', cf. Ved. pres. sindit' 'binds', perf. â sizāpa: OAv. ā-bitā-itā (seeps bound' (*s-shz-sip-), ps 'Plitt: 3pl. silpspanat' bind' beside HLuv. bilpspanti.*0 On the assumption that YAv. fem. Anābitā- means 'unbound', the meanings 'virgin' and 'stainless' may both be understood as the result of a semantic shift from the original meaning.

YAN. Anabhitā- has in fact a remarkable comparandum (except for the preverb a*) in Mycenaean Greek, namely the privative adjective a-na-i-ta, a-na-ta |an-aitā-/ 'not inlaid' (Knossos), which is itself the result of a semantic specialization of the Greek reflex of PIE *sb_zei- or *seb_i- *bind, attach, fix'. Its phonetic ourcome, PGk. *binj-,*i survives only in Mycenaean, probably as |ati-/ (with psilosis),**a *zeminus technicus of decoration with the specific sense 'hlap' (as a specialization of *stracth)*,*ib which

³³Gk. λίμνη is probably related to Ved. numud-'hollow, lowland'. See Forssman 1964:15-6, who explains the Greek form as the outcome of a dissimilation

¹⁶The secondary meuting of Augin as 'square' (a Att. 61966) in Thesialy (0erravale de vine) Aughe dispose analogies, Hatch; see Helly 1993 IL106-7; Garcia Ramón 1997;31-3; 2007.40-1 n. 179) and in Cypnut (Juspides and Johnstoffe, Habon, Hatch, Imay also be assumed for Sparra, since Augus 1s the rame of a Sparcan square (Paus. 3, 2 6; Str. 8 s.).) The synonymy of Jupide and Juage with Art. δ1968 may be explained under the assumption that memetings originally took place in an area close to metadows or to harboric (Schmitters 1998;133). At any rate, the Laconian places mentioned above seem to keep the original meaning 'marshy place'.

²⁷ The ethnic Aussirāc is also attested, of Paus, 1,16.9

³⁸ In fact, Pausamas states that Λημαία is an epither of Arremis 'Ισσικρία and does not identify the goddess with Artemis but with Britomartis, the Cretan goddess of nature.

²⁶ Str. 8.3.45. Also attested in Cos (Schwyzer 1923:no. 251 B5). The epithet is referred to Hera in Opprus (Hisch. N.), with pulous, of Egetmeyer 2010:183, 261. Likewise, let us not forger Apollo (Baèring at Tamassos in Oyprus (dat. e-le-r-ta-t, of. Masson 1983:224-1, Egetmeyer 1992:12, 2010:282-3), Demeter év Der in Arcadas (Paus. 8 16.6), and Arbitrodite év Der in Samos (Athen. 18 (vz.)).

³ºCf. Thuc 4.54.4, Xen Hell 6 5 32, Plb. 5.19.7; Str. 8.5.2; Paus. 3.22.3.

[&]quot;Bartholomae 1904 125, Reichelt 1917 100.

³² So "die ungebundene" (Oettinger 1983 365-6); "the unattached lofty one" (Skjærvø 2006:xxxxx).

interpretation of YAv. absta- (actually artested in Vd. 16.16) remains controversal. The assumption that YAv. absta- would match Ved. aista- 'dark-colored, black' and mean 'stained', whence an-absta- 'not stained, staineds', ¹⁰ is problematic: the length of the first vowel in YAv. absta- as against Ved. aista- is unexpected, ¹⁴ and the reconstruction of an adjective *abst- (< *hp_n-i- or *hp_n-i-, f G. R. änr, 'slmer, mud'.) Hitt. hanzam-'black') ¹⁰ on which absta- would be based, is not compatible with the existence of the abstract noun absta- 'staining, pollution', which points to a verbal stem (à-bi-), not to an adicetive. ¹⁰

[&]quot;On the connection of YAv. ahita- with Ved. duta-, cf. Kuiper 1939'37.

³⁴The long 4- could be caused by the general rendency within Avestan to lengthen the antepenultimate syllable, cf. YAv, parmula 'prosperity' as against OAv, parmula 'td.': Ved. pirmulabi-. For references see Octimeer 108:34-6-. Hoffman and Porspania 1090:56-7.

⁸All three forms, Ved dita- 'dark, black', Gr ăms 'mud, rubbish', and Firtt. hannana- 'black' were first connected by Cop (1970-197-6). Flut. hanna(n)na- has been derived from PAn *Hipu(n)na- Cf. Oettinger 1987:101. Mekhert 1994:131.

³⁶Oettinger 1983.360.

³⁷ The synchronic antonym to Ved. *sitd*, Av. *hita* is actually Ved. re-sitd* 'unbound': YAv., OP viita

¹⁶ PIE *16xg+ 'bind, attach' may be unrelated to PIIr. *26+, cf. Ved x6+, systs and Av h8t, which belong to *26h(t)- 'let loose', cf. LIV* x.v. *26xg+.
26h(t)- 'let loose', cf. LIV x.v. *26xg+.
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[&]quot;Kummel 2000.675-

⁴⁰ The Luvian forms go back to the reduplicated form 4h2+1h2+1 with dissimilation of the initial laryngeal in Hirtine, cf. Melchert 1984, 99-100. Anyway, Hirt 1894-1904 may be traced back to 41h2-106- and match Ved

[&]quot;Cf. also the Greek zero-grade forms iμός 'leather strap', iμάσθλη '(thong of a) whip' For the whole dossier, see García Ramón 1994–5 340.

⁴³ Cretan psilosis, which is well attested in the first millennium, may also be assumed for Mycenaean Knossos (García Ramón 1994–5.341, 345-6)

^{*&#}x27;Garcia Ramón 1996-5;396. Also cf. LIVO x.v. *bh.gr. The semantic shift from 'bind, attach' to 'inlay' finds parallels in some possible uses of 'Revic' bound/attached' and 'inlaid'. Cf. Vod did -usy' put in' beside dis sa ~ usy 'fax, unite', as well as Hitt. diffunable, which usually means 'bind' but in some passages acems to mean 'fimosee'.

disappeared in post-Mycenaean times. Myc. /ai-/ (or /*bai-/) is also attested in perf. prc. a-ja-me-no/ā-/iai-āi(s)meno/ā-/'inilaid, overlaid', beside the agent noun a₁-te /aiter/ 'inlay worker' (both in Knossos and Pylos).

An-absta-seems thus to reflect the virginal character of the goddess Arsatust-Siña-Anabitā-she is called 'unbound' in the sense of 'not attached' (to someone as part-ner) and, more precisely, as 'unwedded, unyoked'. The metaphoric use of 'bound' as 'partner' is attested in OAv. bi8a-'partner (of truth)' and bi8u-'id. '44' (nom. bi8us), of 'y34-to' b ppmanna armatism damını vidusuk bi8qım alabita-"... and prosperous right-mindedness, knowing (it), the creative partner (acc. bi8qım) of truth,'' Y.45.7c alabita viqum yebila bi8tus' na apmo" ... let (him) whose partner is the prosperous man be protected by ruth."

4.2. Virginity is one of the core aspects of Artemis. Recall the myths which depict the goddess as a zealous protector of chastity (Hippolyrus [E. Hipp.], Callisto [Apollod. 3.8.4.]), as a punisher of rapists (Actaeon [Apollod. 3.8.4.], Orion [Apollod. 1.4.3], and Tityus [Od. 11.576-81; Pi. P. 4.90]), 43 and as a protector of maidens, who leads the choruses of young girls of marriageable age (visular). 46

Artemis, who asked Zeus for an everlasting virginity (Call 3.6-7), is called mapships (b. Hom. Di. 2; E. Hipp. 10–7; IT 1230: voc. āsaecon mapship), mapship (Call 3.3-10), webin (II. 31.506), "and especially dimenshaping virthout experience in bed, unwedded" (Ar. Th. 118; Porph. de phil. orne. 131.541), which is the basis of āmusorφίμος (of Athena in Nonn. 47.416). The image of an unattached, unwedded Artemis reappears in the unterpretation Eustathius gives to the epithet Taupomblog:

Eust. Comm. Il.1.395-7

καὶ ὅτι ταυροπόλος ᾿Αρτεμις, οὐ μόνον ἀπὸ τοῦ ἔθνους, ἀλλὰ καὶ ἀπὸ τοῦ ζίρου, ἔξ οὖ καὶ ταυρηθὸν ἐμβλέπειν τὸ θυμικῶς ἐντρανίζειν καὶ ἀταυρώτη γυνή, ἡ ἄζυξ.

"And Artemis is τουροπόλος not only because of the people but also because of the animal, whence to look like a bull, i.e. to look irascibly and the unwedded maiden, the unyoked."

According to Eustathius, the epithet, apart from pointing to the connection of Artemis with the Tauric people, reflects two characteristic features, namely her fierce glance (τωρηδο ἐμβλέπευ) and her virginity (ἀτωρούτη γυνή). In another passage, the expression ἀτωρούτη γυνή is glossed as ἄζιξ καὶ πωρδέκος (Comm. Od. 1.244.13). In fact,

αμός ('Archil.+') is often attested as a synonym for 'virgin' (E. Τε 136; Ar Τε. 136; Ar Τε. 136; Ar Τε. 136; Ar Τε. 136; Ar Te. 136; Ar

5 Conclusion

Av. Ambinia- and Greek Artemis have three peculiarities in common, which speak for a match between the deities. First, they stand upright (YAv. przsunaißia-, Gk. 'Og-6% and variants) and have the function of a midwife and swaperzódes, i.e. they make the children upright and strong. Second, they are associated with the waters and represented as ladies of the marthes: Av. Andhitia- seems to match Ved. Sárannari-, and the same applies to Artemis 'Ebeia. Thirdly, they are both 'unbound'; i.e. 'virginal', as shown by the name of the Iranian goddess (an-ā-hitā- 'unbound'), which finds a close formal parallel in Myc. 'Enr. -an-i-ta-a. an-i-ata-(an-i-ta-l-) 'nor inlaid' (*unbound'). Both verbal adjectives match each other perfectly, the only difference being the preverbal â' in Avestan, while the semantic divergence results from different developments of the original sense 'unbound' in the two traditions. Whether these coincidences are inherited and point to an Indo-European deity, as Calvert Watkins has suggested for Hermes and Paian-', or or are the result of the contact between Iranians and Greeks, remains beyond the scope of the present contribution.

Abbreviations

LIV² = Kümmel, Martin, and Helmut Rix, eds. 2001. Lexikon der indogermanischen Verben: Die Wurzeln und ihre Primärstammbildung. 2nd ed. Wicsbaden: Reichert.

References

Bader, Françoise. 1980. "De lat. arthuse à lat. orior" Revue de Philologie 54:37-61, 263-75.
Bartholomae, Christian. 1904. Alismnisches Worterbuch. Strassburg: Trübner.
Boyce, Mary. 1975-82. A History of Zoroastruanism. Leiden: Brill.

Calame, Claude. 2001. Choruses of Young Women in Ancient Greece: Their Morphology, Religious Role, and Social Functions. Tr. Derek Collins and Janice Orion. Lanham: Rowman & Littlefeld.

Čop, Bojan. 1970. "Beitrage zur indogermanischen Wortforschung. VIII." Linguistica 10:89-106.

^{**}Alster Bartholomae 1904:1813 'Verband, Genossenschaft'

^{*}Some rapes, however, dut take place in Artems' sanctuaries, like the violation of Spartan maidens by Messenian men in the sanctuary of Artems Limmatis (Paus. 4.4-2).
*Most of the festivals took place in Laconia (at Limnai (Artems Limnais), Sparta [Artemis Oribia],

⁴⁵Most of the festivals took place in Laconia (at Limnai [Artemis Limnaits], Sparta [Artemis Orthia], or Karyai [Artemis Karyatis]). See Wide 1893 97–133. For details on Artemis maiden choruses, see Calame 2001 142–79.

⁴⁷ E. LA 1521, Hipp. 61-4, Tr. 554; Ar. Th. 115-6: all testimonies belong to choral passages.

^{*}The epithet mentioned by Porphyry (= Eus. Prings. 87. 4.23.7) is actually applied to Phoebe, a well-known hypostasis of the goddess. In fact, the epithetis she bears in the passage, ταιρώτης and χρισυβέλεμως, are characteristic of Artenus.

⁴⁰In the case of Arterns the epithet may also reflect the wild character of the goddess who is called ἀρροτάρα/-η (II, +).

⁵⁰ Watkins 1970 345-50.

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- Covini, Andrea. Forthcoming. "L'Artemide 'dei cervi' e 'dell'Alfeo' in Elide." Aerum Antiauum 14.
- Dawkins, Richard M. (ed.). 1929. The Sanctuary of Artemis Orthia at Sparta. London: MacMillan.
- Egetmeyer, Markus. 1992. Worterbuch zu den Inschriften im kyprischen Syllabar. Berlin: de Gruyter.
- . 2010. Le dialecte grec ancien de Chypre. Berlin: de Gruyter.
- Forssman, Bernhard. 1964. "Gr. npiyuvn, ai. numná- und Verwandtes." Zeitschrift für vernleichende Sprachförschung 70:11-28.
- García Ramón, José Luis. 1994–5. "The word family of Mycenaean a-ja-me-no /aiat(s)meno-/ 'inlaid, overlaid' and IE *sehzi- 'bind, attach'." Minos 29–30:335–46.
- —. 1997. "Cuestrones de léxico y onomástica resalios." In Karà didikkons. Arti del III Colloquio internazionale di dialetrologia greca, Napoli, Fiaiano d'Ischia, 25-28 settembre 1996), ed. Albio C. Cassio, 521-52. Napoles: Istituto Universitatio Orientale.
- —. 2007. "Thessalian personal names and Greek lexicon." in Old and New Worlds in Greek Onomastus, ed. Elaine Matthews, 29–67. Oxford: Oxford University Press.
- Gotô, Toshifumi. 1987. Die "I. Prasensklasse" im Vedischen. Vienna: Österreichische Akademie der Wissenschaften.
- Gschnitzer, Fritz. 1985. "Zu gr. λιμώρ: 'Hafen, *Wiese, Versammlungsplatz." In Spruchwissenschaftliche Forsthungen: Fenschrift Fur Johann Knobloch zum 6s. Geburstug, od. Hermann M. Ölberg, Gernot Schmidt, and Heinz Bothien, 123–6. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Helly, Bruno. 1973. Gonnoi. I, La cité et son histoire. II, Les inscriptions. Amsterdam: Hakkert.
- 1993. "Accord de sympolitic entre Gomphoi et Tamiai." In Dialectologia Graeca: Actas del II Coloquio Internacional de Dialectologia Griega, ed. Emilio Crespo, 167–200. Madrid: Ediciones de la Universidad Autónoma de Madrid.
- Hertel, Johannes. 1927. Die Sonne und Mithra im Awesta: Auf Grund der awestischen Feuerlehre dargestellt. Leipzig: Hacssel.
- Hoffmann, Karl, and Bernhard Forssman. 1996. Arestische Laut- und Flexionslehre. Innsbruck: Innsbrucker Beiträge zur Sprachwissenschaft.
- Johansson, Karl F. 1893. "Sanskritische Etymologien." Indogermanische Sprachfurschung 2:1-64.
- Kilian, Imma. 1978. "Weihungen an Eilethyia und Artemis." Zeitschrift für Papyrologie und Epigraphik 31-219–22.
- Kuiper, Franciscus B. J. 1939. "Indo-iranica: Jaw. älbaiti 'verdirbt'." Acta Orientalia 17,35-50.
- Kümmel, Martin Joachim. 2000. Das Perfikt im Indominischen. Wiesbaden: Reichert. Lommel, Hermann. 1994. "Anahita-Sarasvati." In Asiatica: Festschrift Friedrich Weller zum 65. Geburttag gevidmet von seinen Freunden, Kollegen und Schülern, ed. Johannes Schubert and Ulrich Schneider, 409–13. Leipzig: Harrassowitz.

Masson, Olivier. 1983. Inscriptions chypriotes syllabiques. 2nd ed. Paris: de Boccard.
Melchert, H. Craig. 1984. Studies in Hittite Historical Phonology. Gottingen Vanden-

hoeck & Ruprecht.

- -. 1994. Anatolian Historical Phonology. Amsterdam: Rodopi.
- Octtinger, Norbert. 1983. "Untersuchungen zur avestischen Sprache am Beispiel des Advisür-Yašt." Habilitation. University of Mumch.
- 1,987. "Anatolische Wortbildung und indogermanische Chronologie." In Studien zum indogermanischen Wortschatz, ed. Wolfgang Meid, 189–92. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Reichelt, Hans. 1911. Avesta Reader. Strassburg: Trübner.
- Ruiigh, Cornelis J. 1967. Études sur la grammaure et le vocabulaire du grec mycénien. Amsterdam: Hakkert.
- Schachter, Albert. 1981. Cults of Boeotia I-II. London: Institute of Classical Studies.
- Schwyzer, Eduard. 1923. Dialectorum Graecarum exampla epigraphica potiora. Leipzig: Hirzel.
- Skjærvø, P. Oktor. 2006. "Introduction to Young Avestan." http://www.harvard.edu. webpub.pdf.
- Vegas Sansalvador, Ana. 1996. "Worthasía, Orthía y Ártemis Orthía en Laconia." Emerita 64:275–88.
- Watkins, Calvert. 1970. "Studies in Indo-European legal language, institutions and mythology." In Indo-European and Indo-Europeans, ed. George Cardona, 321–54. Philadelphia: University of Pennsylvania Press.
- Wide, Sam. 1893. Lakonische Kulte. Leipzig: Teubner.
- Windischmann, Fr. 1856. Die persische Anahita oder Anatitis: Ein Bestrag zur Mythengeschichte des Orients. Munich: Verlag der k[aiserlichen] Akademic.

Vedic *ketú-* 'brightness' Revisited: Some Additional Considerations*

AURELIJUS VIJŪNAS

- r. In the present article, I will return to the history of the Vedic noun hatti-brightness' (vel sim.). This noun has already been discussed many times in different contexts; however, the existing historical interpretations of hatti- and its cognates in the other Indo-European languages (Go. haidus 'manner, way', OE had 'person; rank, degree', etc.) are not entirely astriactory,' I not he following sections, I will discuss the recent scholarship on this subject, along with some of the the remaining problems, and consider alternative ways to reconstruct the ancestral form of this problematic noun. Due to space constraints, I limit my discussion to Indic matters.
- a. One fairly recent and detailed discussion of the history of the noun hethis may be found in Schaffiner 2001;307. In his historical analysis of Go. haidus "manner, way", Schaffiner proposed that this noun, along with its other Germanic cognates and Ved. hethis, reflect a hysterokinetic ru-stem "hej-thys, built to the verbal root "hej-"perceive" (loc. cit.).

Such a reconstruction was later criticized by S. Neri in his own analysis of the history of Go. haidsu (Neri 2003;216–21). Neri observed that Schaffner's root *hei-should rather be reconstructed as *hei-, and that this would pose serious problems for Germanic reflexes of the proposed u-stem.\(^1\) In addition to this, Neri also pointed out that historical un-stems normally follow the proterokinetic accentual pattern, and,

*I would like to say a sincere thankyou to Kazuhiko Yoshda (Kyoto University) for hosting me in Kyoto during autumn 2013, where part of this article was written, as well as the editors of this volume for their constructive remarks and providing me with several items which were unavailable to me in Tawan.

"This noun has been translated in many different ways, due to lack of an exact equivalent in the European languages, thus, in different translations of the Rigereda, kirii-has been translated as "bannet/flagerosign", symbol", sign," messenger", herald, "director", light", "torch", 'illuminator", "becon' etc. (examples collected from Wilson 1666, Geldner 1915-7, Griffith 1965, Elizarenkova 1999, Jamison and Breveton 2014).

^aFor the most recent studies, see Schaffner 2001 and Nert 2003. For earlier, much briefer, discussions, see Renou 1948 14-7. Luborsky 1988 44. EWAss 1 399 (with further references). IEW 916.

'A labrovelar is indicated by Greek rius 'pay honor' (< "\$b">, ice (LIP' 377-8) The delabalization of labrovelars before a historical 'θ in Germanic, referred to by Schaffner (loc. cit.), is too sporadic to be considered regular. Examples like Grac. 'bladus 'neck' (< "bladus') or 'bladus' cit(' < "gradibis") are outnumbered.

most importantly, the derivation of keth-from the root *ket- would dissociate it from such forms as eitn-'visible, clear', Av. eitn-'a-'hiny', etc., which reflect the root *keth-'be shiny, bright.'-4 Instead, Neri suggested that Go. buildus, Ved. keth- et al. reflect an earlier "acrostatic Ib" u-stem *kiti-u-|*kit-u-'(2003;220; accepted in EWAhd 4:914).

For the clarification of terminology, it must be noted here that Neri operated with more subtypes of the acrostatic pattern than many other scholars, some of these subtypes (like the "lb" type) exhibiting mobile accent. According to Neri, this mobile accentuation was secondary, and commonly occurred among nouns built to CeRC roots (Neri 2003;23-5). Neri did not specify, however, whether the acrostatic "lb" u-stem "kiji u-/kii-iu-w was a reformed earlier acrostat "la" "kiji-u-/kii-iu-, or whether it was original.

3. Although it indeed appears more attractive to reconstruct the verbal root underlying lettis as "heip". Neri's acrostatic u-stem "heip-u-|'hir-ú-u-,' which displays otherwise non-characteristic accent mobility and complex ablaur alternations, is difficult to accept on formal grounds. Generally speaking, there is not enough evidence for the reconstruction of the acrostatic "lb" type for the protolanguage. Neri's other examples of this type, e.g. "nok-u-|"nyk-ću-'death', "ddr-u-'"dr-ću-'troc' (Neri 2003:83-9, 220, n. 680), were later explained as reflecting not a single "mobile acrostatic" pattern, but rather being a conflation of two types of accentual paradigms, the stems "ndk-u-, "ddr-u-, etc. representing the strong stems of an original d/d-acrostatic accentual type, and "npk-du-", "ddr-du-, etc. being the weak stems of the protorokinetic type. In other words, the relationship between these stems is not inflectional, but derivational."

Further problems arise regarding the shape of this u-stem, as well as its putative development both within the protolanguage and in Indic. One of these problems is the development of the accentuation of this acrostatic "lb" "héfi.u-/héfi.

by reflexes with a preserved labiovelar, cf. PGmc. "hondpun-'torture' (> Old Icelandic fresso 'torture', OE
cuellan 'kill', crc.), "invast 'what' (< "Meat), "invast" 'whate', 'finessus 'sharp' (< "Meat, 'invast"), 'arch' (>
Olec 'lmalf', OE houstly' donne'), crc. (see also Kummel 2000 179-80, Nen 2001 188-9, n 876). The behavior
of labiovelars before a histonical 'b' in Proto-Germanic requires a more thorough investigation,

^{*}Lubotsky 1988:44 has *(s)kejt

⁵For a longer discussion of this derivational pattern and additional examples, see Widmer 2004:65-7, 96–7 and Friedman 2006.

^{*}An oxytone variant is attested three times in the sequence manár iddis (RV 8 7a.2b, 9.63 8b, and 9.65.16b). It appears to reflect an anomalous *mo/en én vel sim., and has not yet been explained in a satisfactory way.

and sánu 'summir' (< *sén-u; cf. Friedman 2006; abl. sg. snób along with sánob and sánunab), both of which reformed their ablaut in certain ways, but neither behaves exactly like kesú-cither ablaut- or accent-wise.

The noun agmi-'fire', which is frequently reconstructed as an old i/d-acrostat but exhibits shifted accent,'c cannot be directly compared with the noun keti- and Neri's "kip-u-'lbi-be-0. On the one hand, when compared to the rest of ancient acrosstats, the accentuation of agmi- appears to be anomalous. On the other hand, exactly because of the oxytone accentuation, agmi- has been alternatively reconstructed as "(b)-yyy"mi-(vel sim.).' Due to different problems, neither of the two reconstructions has been universally accepted, and the definitive analysis for this apparently ancient noun has vet to be offered.

4. Another problem is the provenance of the unusual ablaut o/Ø, whether or not one is to derive it from earlier d/d ablaut (cf. Neir's discussion of ablaut reformations in 82 above). One cannot assume that the o/Ø was original, as it is otherwise unknown, but also deriving it from earlier d/d is problematic. As noted in Neri 2003;23-5, in many athematic formations built to C/ORC roots, the ablaut was reformed in such a way that the original full grade of the root was replaced by the zero grade. But this means that the putative *bdji-us-/*bdji-us-should have become *kii-us-. There exist, to be sure, many forms in which the full grade has been retained—and, interestingly, quite a few of these are (C/us-stems, e.g. stus- 'bridge ("stus)- 'bridn'), patrius- 'rib, sickle?" *rmis- 'dust' ("bs-rejih- 'flow"); cf. EWAia 3.459), stus- 'extraction of Soma' ("sugH-'press"), maintus- adviser; advice' ("mm- 'think"), sturus- 'thread' ("sus-'extend'), ribus- 'extend'), stus- 'extendis account (and possibly an earlier s-grade). Among these, only rmis- appears to exhibit some formal similarities to kethi-, but, aside from the mechanical reconstruction 'bs-rejoid-mis-, nothing else is known of its derivational history.

The noun ketsi-, therefore, appears to be unlike other reflexes of ancient acrostatic formations, even if one assumes certain ablaut and accentual reformations, and it is improbable that it directly reflects an acrostat.

5. Nevertheless, the noun kens- must be fairly old, and go back to some stage of Proto-Indo-European. First, its formal similarities to the corresponding Germanic data are too great to be accidental. Second, if this noun had been formed directly from the verbal root ein- within Sanskrit, one would expect that its initial consonant would be palatal, too. The velar k indicates that the ancestor of kenss- predates the monophthongization of air to E. At the same time, the operation of Verner's law in the

ancestor of the Germanic forms implies that it was formed early enough to predate the shift of the ictus to the root-initial syllable.

Otherwise, though, the history of the ancestor of these forms is quite murky, both as far as the time and the way of its derivation are concerned. What is fartly clear is that this substantive was a s-stem of some sort, exhibited o-grade in the root and had non-radical accent in some part of—or even the entire—paradism.

As such, this formation, which for now I would like to reconstruct mechanically as "köpi-k-, cannot be squeezed into any canonical (or "Schindlerian") accent/ablaut type, or any type of derivation based on these commonly posted accent/ablaut types. As an illustration, one could consider deriving "kopi-k- as a "proterokinetic" adjective, of: the common derivational pattern "kiriku-|"kirk- 'strength' (Ved. krátu-) -> "kritu-|"kirk- ks- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- ks- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- ks- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- ks- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- ks- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k- "krátu-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"kirk-"kirk- 'strong' (Gk. kpanis), "kujú-k-"kirk-"ki

The history of Ved. kens- and its Germanic cognates must therefore be explained in some other way, using another derivational pattern. At least two such patterns can be imagined, although neither is entirely free of problems. They will be described in some detail in the following sections.

6. As was noted in Neri 2003;219 n. 676, the root "http: 'shine' (or 'be shiny') participated in the so-called "Caland system", as is implied by a number of derivatives exhibiting the suffixes **u* and **no* (there also existed an **stem "http:*er*, cf. Ved. **eta** splendor'). The **u*-scem **http:*er* could then be one of these Caland derivatives, although not built directly from the verbal root "http: (or its zero-grade version **hti*-), but rather secondarily from thematic formations, which could exhibit o-grade in the root more easily. Such thematic substantives indeed existed, cf. Ved. htta* 'sign', which, although not attested in the Rigveda in this sense, must reflect an old **tomation** or its history due to its velar k in Anlaux. Another reflect of this "http:-> is probably to be seen in Olc. heid 'clear sky' (< PGmc. **hthip*-)." I also find it tempting to connect some Lithuanian data to PIE **httip*-, cf. Lith. pris-huttas 'sweat', atthata, at-haith **place under direct sunlight or before fire' (although there is no general agreement that these Lithuanian forms belong here etymologically)."

If the ancestor of Ved. ketii- was formed relatively late, one could consider the

⁷This noun was reconstructed as an old acrostat by Schundler (1975:4), cf. also IEW 293, Meiser 1998. 84, Vijūnas 2009.00, 04, Weiss 2011:96, 337 ⁸Other variants of this reconstruction include ⁸h₀gg^{*}98- in EIEC 202, ⁹h₀gg^{*}96- in de Vaan 2008:297,

^{*}Other variants of this reconstruction include *hygg*ns- in EIEC 202, *hyng*ns- in de Vaan 2008:297
*(h_i)ng*ns- in Smoczyński (2007:701), for a recent overview, see Mažiulis 2008.

⁹ Further etymology unclear, cf EWAss 3,100-1

[&]quot;Nori (2003-201) assumed that the ancestor of Ole. Inth was accordantly built in Proto-Germans from the inherented adoctors builde. (< *faip-is-bright) van nommalization. White, from a purely bermans/federate point of view, the derivation is possible in either direction, of PIE *faip-is-> PGinc. *fauide-bright's - bright's -> bright's -> PGinc. *fauide-bright's -> bright's ->

[&]quot;In IEW 190, the Lishuanan from are derived from "bap-"heat' with a "t-ealargement", but I wonder whether all the material adduced in IEW does not belong rather with the root "Igre" shine, be shiny', especully if its consonant I is interpreted in the same way as the 1 of the root "lapse" be shiny', where it must be an old "ealargement" of some sort (cf. PGint. "gratter "white' < "fasqid < "fasqid ot; IEW 628-9, while only "fasgin pointed in ILI" salo.

possibility that it was built as a *u*-stem derivative from the noun **háje-o*-. This *u* stem, however, would have probably had to be an adjective meaning 'shiny, possessing brilliance' and one would have to assume later nommalization.

The account forwarded here may appear quite complex, but nominalization of adjectives is otherwise a banal phenomenon, very well attested throughout the Indo-European language family, and it also occurs among various Caland adjectives, cf. Lith. kaitrià 'heat' \(- *\text{heat} - *\text{heat} - \text{char}, \text{ilikewise PGmc. *\text{yaidra-'} clear sky' (OE hādor \) c'lear sky' \(- *\text{yaidra-'} c'lear' (OE hādor, OHG heitar' clear'; ultimately \(< PIE *\text{hoise-'} \), PIE *\text{yiil-ro-'man'} (< '\text{possessing power'}), Olc. horr, Go. hōrs 'lover, adulterer' \(< PIE *\text{khs}, ro-'\text{vol} - \text{vol

7. Another, much more complex way to derive Ved. krúi-, Go. haidss etc. from a sin-lea ancestor is to reconstruct an earlier ablauting u-stem "kojr-ig-, with the weak stem "kojr-ig-.' Although these two features do not occur in the canonical ablaut/accent patterns, they are nevertheless exhibited by a number of nominal formations, some of which are likely to be old. Among these, the most widely discussed forms are the i-stem "kouly-ig-' seer" (vel sim.; > Old Avestan kanus, Young Avestan kanusa [nom. sg.; YAv. acc. sg. kausatēm, gen. sg. kausatēl, 'Jo Ved. kaus-' 'seer', possibly also Gk. noli]yr: [speis Kaßeison [Hesych.] and Lyd. kaus-' 'priest'), 'n and the men-stem "pols/j-im-s" sheepherd' (Gk. nouyip, Lith. piemus)."

This inflectional type has been interpreted as a subtype of the hysterokinetic pattern in some works, differing from the more typical hysterokinetic formations in that its unaccented root remains in the o-grade throughout the paradigm.¹⁹ A number of things related to this type remain controversial, and while this type is altogether ignored in a lot of works,¹⁹ some scholars have raised the question whether this type is not somehow secondar.¹⁸

Whether it is secondary or not, some of the examples adduced seem to be reasonably old and their reflexes are attested in more than one branch, while others look potentially old, although their history is quite unclear. Among the examples of this regular inflectional features of derivative u-stems, cf. nom. sg. ketúh, acc. sg. ketúm, instr. sg. ketúna, dat. sg. ketúve, etc., with most of the forms displaying the zero grade of the suffix, but, as is quite common, dative singular exhibiting -np- (< *-np-). This inflection must have been adopted from other u-stems, since in an idealized hysteroki-

of the suffix, but, as is quite common, dative singular exhibiting. *m*- (< **ep*-). This inflection must have been adopted from other u-stems, since in an idealized hysterokinetic paradigm (leaving aside the o-grade of the root) the corresponding singular forms would have looked as follows: nom. *hoit-4p. acc. *hoit-4p-m, instr. *hoit-y-6p, cat. *hoit-y-y-f, etc. As is apparent, the idealized paradigm does not contain a single case of a vocalic suffix *m*- (except in some of the putative plural forms), whereas the

2007a, 2007b.162-4, Hawkins 2013 183-7

8. If Ved. ketú- indeed reflects an earlier *kojt-éu-/*koit-u-', this formation must have

undergone a number of changes on the way to Vedic. Synchronically, ketú- displays

¹² The base adjective *kostro- was replaced in Lithianian by a n-stem kastriss

[&]quot;The gen, sg, knuwôs displays the usual Avestan gen, sg, »-stern ending -óss, which must derive from the original proterokinetic pattern, reflecting an earlier *-éi-s (cf, also Vedic gen, sg, --éh/-eh)

original proterokinetic pattern, reflecting an earlier **efs* (cf. also Vedic gen. sg. - 4th-eb).
*There exists a lot of literature on this word now, spanning more than a century, cf. Saussure 1879.113, Masson 1900. Klingenschmitt 1902:114, 116, Mekhert 1904-312, 367, ct passim, Friedman 2006. Jamison

[&]quot;On the root, see LIV" 460. Schaffner (2001'89-91) has "poply, mirs-, via metathesis from "poply-is-'clefend' In ETEC 268, "popl, mirin: is reconstructed (to "poply: "watch after cartle'), but h₂ is indicated by Hutte publicable' rootect.' In Rix 1992-145, "poply-in-mirin" is reconstructed on p. 145 but "pop₂-mirin on p. 121.

¹⁰For a longer discussion of this type with many examples, see Schaffner 2001;88–91. This type is also discussed in some detail in Neri 2003;30–3.

[&]quot;Rix 1902 123, Beckes 1991 176-83, Szemerényi 1996.161 2, Meier-Brugger 2010 349-53, Tichy 2000'73, Fortson 2010 120-1, Ringe 2006'45-6, Weiss 2011'258-9, among others.

¹⁸ See Widmer 2004. 62, Friedman 2006

latter type, one may mention Old Church Slave knop* (root* (< **bar-ta*), ** which may or may not be further related to Lith. karnà 'bast' (< !*kor-mn-+--a* or a simple *kor-na?) and perhaps Ved. kanyā 'giti' ((- **lban-t-h,fa-), ** Other examples of this type are even less clear, but nevertheless worth mentioning, e.g. Lith. pra-garmā 'abyss', which derives from the root "gi* enh₂-"swallow", but since it exhibits the otherwise uncommon o-grade, *i* ir may ultimately reflect PIE "gi* only-mhs; further c'. sahnā 'tale, legend' (if < *boh*-mhs), 'ab bāime' 'fear' (if < *bhohly-mhs), 'noCS plamy/plamens 'flame' (+ "pol-mhs), 'EW 805), perhaps also Ved. renā-' dust' (if < *bj.rojH-nhs)-, manī-' 'necklace' (vel sim, if < *mon-s-i-), 'ab 'mon-s

Although some of the examples adduced above have already been discussed here and there, a detailed study of all the relevant data is still lacking. Among the things that need to be clucidated in these formations are the source of the non-ablauting o-grade in the root, the differences between this type and the regular hysterokinetic formations, and, if they are indeed secondary as argued by Widmer (2004:62), what formations they are based on.

Although, as can be seen from the discussion above, deriving ketsi- from this noncanonical hysterokinetic formation entails a lot of problems as well, in the following sections I would like to consider how ketsi- could have developed out of an earlier *kisi-ću-.

suffix -64-, needed for the Sanskrit dative, only appears in the accusative.

"Jasznoff 1983:140, Schaffner 2001:90, n. 105, Widner 2004:66, Kroonen 2011:30

²⁰For a recent discussion, see Rau 2010:317, with further references. The vowel s is mysterious, but cf. *pob₂(*)s-mén-above (*peb₂-*protect*).

[&]quot;The verb garméti 'fall, plunge' is clearly denominal; another example with o-grade is the isolated noun garm's 'heron'

^{**}One potential problem with this noon is that LKZ cites the form shade as the older form (occurring in Daukka), but soften is either directly built to the verb sidn't cill a tale', or (much less probably) it is a reformed proterokinetic formation. The noon salams, however, is the "lectio difficilior", and it may potentially be further connected to Old Icelandic sign's story' and Old English signs 'saying, story' (+ "sign" - ! *sign"

^{**}Cf. EWAia 3.293 4, 308 (on the hapax sistr. sg. maná 'piece of jewelty' [¿]), and further comparison with Olc. men 'necklace' (< PGmc. *manjó ← *mon-j-'), etc</p>

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This awkward mismarch does not have to mean that ketsi-cannot reflect an original hysterokinetic formation. One should recall that also the noun know-'seer', along with at least some of the other forms introduced in \$97 above, would have faced comparable ablaut problems, although it is generally agreed that at least know-reflects an archaic knowle-it. If ketsi-know-etc. indeed reflect hysterokinetic formations of some sorr, their synchronic shape in Sanskrit should imply that major ablaut reformations must have taken place in the history of Indic, whereby the inherited ablaut alternations of original hystero- and amplikuneric i/w-stems were greatly reduced (although more traces can be observed in Avestan). The synchronic Vedic inflections of i- and si-stems for the most part display the endings which originally belonged to the accostatic and proterokinetic types—which is not ahonormal, since both types were more widespread in the protolanguage itself. The original hysterokinetic features of "hough,-if- or "houj-tips would have been removed by analogical processes; however, the details of these developments have not yet been investigated cither.

9. In considering the reconstruction of a hysterokinetic se-stem of any type one should also ask whether such an accent/ablaut type existed in the protolanguage in the first place.

Hysterokinetic u- and tu-stems have been mentioned in the scholarly literature on a number of occassions: see, e.g., Beckes 1973:238, 1985:94, Klingenschmitt 1992:114, 16, Schaffner 2001:507, and Neri 2003:104-5. However, much uncertainty enshrouds the examples adduced.

In his discussion of the history of the Greek ra-formations, Beckes considered hysterokinetic nu-stems to be their possible ancestors, but only with reservations (op. cit.; this idea was later revived in Klingenschmitt, op. cit.). It must also be added here that Beekes used the term "hysterokinetic" in a very broad sense, cf. also his classification of such formations as Ved. philis-/paiii- 'cattle' or histus- 'strength' as "hysterokinetic" (1985:74-5, following earlier work by F. B. J. Kuiper).²⁴

I am also not persuaded by Klingenschmitt's reconstruction of Lat. plabs: and Gk. πληθές 'crowd' as an original hysterokinetic u-stem "βiβ,dib-de (1992:127), although at present, I am not entirely sure what sort of (necessarily secondary) formation they reflect. In any case, PIE "εί, "εί, or "su cannot regularly yield Greek v, whereas some of the problems for Latin have been described by Neri (2003:110-11)."

Likewise, the two Tocharian forms, TA plate and TB plate 'speech', do not necessarily reflect the rather unusual hysterokinetic tu-stem *bbelH-tēu (Klitgenschmitt, bild.). In addition to the issues already pointed out in Neri 2003, such as the double e-grade, and, specifically, the presence of the e-grade in the root (Neri 2003;108-10), it may be added here that the lack of palatalization in the TB oblique plural form platain

(vis-à-vis TA placaim), believed to be the crucial evidence for the reconstruction of Psysterokinesis (see Neri, libid.), may ultimately reflect secondary, analogical alternations between palaral vs. non-palatal consonants, i.e., it may be a Tochanan innovation. Such consonant alternations are fairly common in Tocharian B, and, among other environments, they frequently occur in the nominative and oblique plural forms, cf. dic/jidisc - actism (nom. sg. disc 'beach'), klokai(c)/klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi - klokautam (nom. sg. klokaisi -

10. From this discussion, it turns out that inherited hysterokinetic u-stems are virtually non-existent. However, there exists at least one attractive example of an old hysterokinetic u-stem, viz. "uf-j-g-" (personalized) sky' (> Gk. Zeig, Ved. Dyūdu etc.), recently investigated in detail by Rau (2010). By late common Indo-European times, this formation was probably perceived as a root noun "dig-u-, but, as was shown by Rau, it is possible to interpret it as an old (though secondary) derivative of an earlier root noun "dig-' 'day', and built in the "regular" hysterokinetic way, with the root in the zero grade, and characcristic ablaut alternations in the suffix and the endings.

Although Rau was puzzled by the seemingly exceptional hysterokinesis of this derivative (Rau 2010;36–7), his analysis effectively demonstrates that formations which cannot be easily fitted into well-established derivational patterns nevertheless existed, and that further research into various "murky" corners of the protolanguage is needed. If Ved. kettis-reflects an earlier "kety-44y, this would be one additional (although not exactly comparable) example of such rare derivation. Formations of this type, which do not conform well to the canonical ablaut/accent and derivational patterns, may indicate that a number of different derivational patterns developed at different stages of the protolanguage isself, while in the course of time, through various analogical and phonological developments (e.g. the emergence of new lengthened grades following the loss of laryngeals), the "original" ("Schindlerian") ablaut/accent patterns and the entire inflectional/derivational system were slowly reformed. This part of the history of Proto-Indo-European morphology is yet to be understood.

Possibly, hysterokinenc w-stems were not very widespread at any stage of the protolanguage—although some putative reflexes of early hysterokinetic w-stems might have been obscured by later phonological or morphological changes. It may be noted here that analogical i-stems were not very widespread either, although they are at least better attested than hysterokinetic w-stems, cf. the Latin nouns of the fidts 'faith' type, some of which reflect primary-looking hysterokunetic formations (*bbidb-if-, etc.); other, perhaps non-primary formations, exhibiting hysterokinetic features include the

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²⁴ For an overview of Beekes's infloctional types, see Beckes 1995:174-6.

³³Mutatis mutandis, the same applies to the putative hysterokinetic tw stems as to the ancestors of the Greek to formations

ad Synchronically, both nouns belong to the same inflectional class as place.

²⁷Cf. a brief discussion of the analogical spread of palatalization in Tocharian in Ringe (1996.to1-2)

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previously mentioned * $koub_1$ - ϵ_1 -'seer' (see §7 above), Hittite udne 'land' (< *ud-n- ϵ_2 -; see Oettinger 2000:182–3), and others.

II. In this article, I have returned once again to the history of the Vedic noun heats, and proposed an alternative, although at this stage speculative, reconstruction of its Proto-Indo-European ancestor. To my mind, the earlier reconstructions of an original hysterokinetic tu-stem "hoi-téu-"his-ty- or a 'mobile acrostatic' u-stem "hoi-téu-"his-ty- are not satisfactory, and I have proposed two alternative ways to interpret the history of this noun.

Although neither way appears to be entirely free of problems, what is clear now is that Ved. ketid- and its Germanic cognates reflect an inherited formation, a bizarre u-stem which possibly had a non-ablauting root in the e-grade and exhibited oxyronesis, *boit-(e)id-. This formation cannot be easily fitted into the canonical ablaut/accent system or the well-known derivational patterns, but at the same time it is not entirely alone in the nominal system, standing side by side with other derivatives that exhibit non-canonical features, some clearly quite old. The derivational history of all such formations, as well as their place in the history of Indo-European derivational morphology, requires a more detailed investigation.

Abbreviations

- EIEC = Mallory, J.P., and D.Q. Adams, eds. 1997. Encyclopedia of Indo-European Culture. London: Fitzroy Dearborn.
- EWAhd = Lloyd, Albert L., and Rosemarie Lühr. 2009. Etymologisches Wörterbuch des Althochdeutschen. Vol. 4: gåba – hylare. Göttingen: Vandenhoeck & Ruprecht.
- EWAia = Mayrhofer, Manfred. 1986–2001, Etymologisches Wörterbuch des Altindoarischen. Heidelbere: Winter.
- IEW = Pokorny, Julius. 1959. Indogermanisches etymologisches Wörterbuch. Bern: Francke.
- LIV² = Kimmel, Martin, and Helmut Rix, eds. 2001. Lexikon der indogermanischen Verben. 2nd ed. Wiesbaden. Reichert.
- LKŻ = Naktiniene, Gertrūda, ed. 2008. Lietuvių kalbos žodynas. Electronic version. Vilnius: Lietuvių kalbos institutas. http://www.lkz.lt

References

Beckes, R. S. P. 1973. "The Greek 1- and n-stems and πόλις, ¬ηος." Glotta 51:228-45.

—... 1985. The Origins of the Indo-European Nominal Inflection. Innsbruck: Institut

für Sprachwissenschaft der Universität Innsbruck.

——. 1995. Comparative Indo European Languestics: An Introduction. Amsterdam: Benjamuns. de Vaan, Michiel. 2008. Etymological Dictionary of Latin and the Other Italic Languages. Leiden: Brill.

- Elizarenkova, T. J. 1999. Runeda. Moscow: Nauka.
- Fortson, Benjamin W. IV. 2010. Indo-European Language and Culture: An Introduction. 2nd cd. Malden: Wiley-Blackwell.
- Friedman, Jay. 2006. IE *médbu 'honey, mcad'. Unpublished ms., UCLA.
- Geldner, Karl Friedrich. 1951-7. Der Rig Veda: Aus dem Sanskrit ins Deutsche übersetzt und mit einem laufenem Kommentar versehen. Cambridge, MA: Harvard University Press
- Griffith, R. T. H. 1963. The Hymns of the Rgveda. 4th ed. Varanasi: Chowkhamba Sanskrit Series Office.
- Hawkins, Shane. 2013. Studies in the Language of Hipponax. Bremen: Hempen.
- Jamison, Stephanie W. 2007a. The Rig Veda between Two Worlds / Le Rgreda entre deux mondes. Quatre conférences au Collège de France en mai 2004. Paris: Boccard.
- 2007b. "Vedic Usană Kâvya and Avestan Kauui Usan: On the morphology of the names." In Verba Docenti: Studies in Historical and Indo-European Linguistics Presented to Jay H. Javanoff by Students, Colleagues, and Friends, ed. Alan J. Nussbaum, 155–68. Ann Arbor: Beoch Stave.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda: The Earliest Religious Poetry of India. New York: Oxford University Press.
- Jasanoff, Jay H. 1983. "A rule of final syllables in Slavic." Journal of Indo-European Studies 11:139-49.
- Klingenschmitt, Gerd. 1992. "Die latentische Nominalflexion." In Latein und Indagermanisch, ed. Oswald Panagl and Thomas Krisch, 89–135. Innsbruck: Institut f
 ür Sprachwissenschaft der Universit
 ät Innsbruck.
- Krause, Wolfgang, and Werner Thomas. 1960. Tocharisches Elementarbuch. Heidelberg: Winter.
- Kroonen, Guus. 2011. The Proto-Germanic n-Stems: A Study in Diachronic Morphophonology. Amsterdam: Rodopi.
- Kummel, Martin Joachim. 2000. Das Perfekt im Indoiranischen. Wiesbaden: Reichert. Lubotsky, Alexander M. 1988. The System of Nominal Accentuation in Sanskrit and Proto-Indo-European. Leiden: Brill.
- Masson, Olivier. 1950. "Lydien kaveś (καίνης)." Jahrbuch für kleinasiatische Forschungen 1:182-8.
- Mažiulis, Vytautas. 2008. "Del indocuropiečių jugnies' vardų." Baltistia 43:431–6. Meter-Brügger, Michael. 2010. Indogermanische Sprachwissenschaft. yth ed. Berlin: Mouton de Gruyter.
- Meiser, Gerhard. 1998. Historische Laut- und Formenlehre der laternischen Spruche. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Melchert, H. Craig. 1994. Anatolian Historical Phonology. Amsterdam: Rodopi.

- Neri, Sergio. 2003. I sostantivi in -u del Gotico: Morfologia e preistoria. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Oettinger, Norbert. 2000. "Heth. sahné, armen. gesin 'Land' und lyk. wehrefi-" In Anusantatyas: Festschrift für Johanna Narten zum 70. Geburtstag, ed. Almut Hintze and Eva Tichy. 181-7. Dettelbach: Roll.
- Rau, Jeremy. 2010. "The derivational history of PIE "difes-fdise-" (god of the) day-lit sky; day." In Ex Anatolia Luc: Anatolian and Indo-European Studies in Honor of H. Craig Melchert on the Ocasion of His Sixey-fifth Birthday, ed. Ronald Kim, Norbert Octtinger, Elisabeth Rieken, and Michael Weiss, 307-20. Ann Arbor: Beech Stave.
- Renou, Louis. 1958. Études sur le vocabulaire du Rgveda. Première série. Pondichéry: Institut français d'indologie.
- Ringe, Don. 1996. On the Chronology of Sound Changes in Tocharian. Vol. 1. New Haven: American Oriental Society.
- ——. 2006. From Proto-Indo-European to Proto-Germanic. New York: Oxford University Press.
- Rix, Helmut. 1992. Historische Grammatik des Griechischen: Laut- und Formenlehre. 2nd ed. Darmstadt: Wissenschaftliche Buchgesellschaft.
- Saussure, Ferdinand de. 1879. Mémoire sur le système primitif des voyelles dans les langues indo-européennes. Leipzig: Teubner.
- Schaffner, Stefan. 2001. Das Vernersche Gesetz und der innerparadigmasische grammasische Wechsel des Urgermanischen im Nominalbereich. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Schindler, Jochem. 1975. "L'apophonie des thèmes indo-européens en -r/n." Bulletin de la Société linguistique 70:1-10.
- Smoczyński, Wojciech. 2007. Słownik etymologiczny języka litewskiego. Vilnius: Vilnius University Press.
- Szemerényi, Oswald J. L. 1996. Introduction to Indo-European Linguistics. New York: Oxford University Press.
- Tichy, Eva. 2000. Indogermanistisches Grundwissen für Studierende sprachwissenschaft-
- licher Disziplinen. Bremen: Hempen. Vijūnas, Aurelijus. 2009. The Indo-European Primary T-Stems. Innsbruck: Institut für
- Weiss, Michael. 2011. Outline of the Historical and Comparative Grammar of Latin. Corrected printing. Ann Arbor. Beech Stave.

Sprachen und Literaturen der Universität Innsbruck

- Wıdmer, Paul. 2004. Das Korn des weiten Feldes: Interne Derivation, Derivationskette und Flexionsklassenhierarche. Aspekte der nominalen Wortbildung im Urindagermanuschen. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Wilson, H. H. 1866. Rig-Veda Sanbitá: A Collection of Ancient Hindu Hymns. 2nd cd. London: Trubner.

On the Vedic Denominative Type putriyant-

BRENT VINE

I Introductory: PIE and Indo-Iranian denominatives

There are many problems that resust solution. But for some types of recalcitrant problems, we may be brought closer to a solution by the simple application of increased artention. What I offer here, far from a definitive solution, is more in the nature of "house cleaning", by updating and problematrizing a neglected topic in Vedic grammar, namely the demoninative formation represented by the participial stem putrijuins' desiring sons', evidently based on the thematic noun putra'-son'.

The entire issue of denominative formations has itself been something of a backwater in Indo-European linguistic research, at least until recently. But some recent studies testify to a renewed interest in denominative formations over the past decade or so, both in individual languages and branches and for Proto-Indo-European itself.² Indo-Iranian has also benefited in this way: witness important studies by insler (1997) and Tucker (1988, 2004), and for Vedic Sanskri in particular, Albino 1997.

An earlier version of this material was presented at the tash World Sanskirt Conference (September 2009; Kyoto, Japan), where I benefited from the comments of many colleagues, including Stephanie Jamison. I eggret that I have been unable to develop the project in ways that the and others suggested; but at least this preliminary exercise gives me an opportunity to thank her for the inspiring scholarship and warm frendshin that the has enementable between do no sum are of its in the norelession.

See e.g. Melchert 1997 (Anatolian), Martzloff 2006 688-92 and Vine 2012 550-64 (Italic), Barber 2013, 294-176, (Greek), and for PIE itself, e.g. Alfien 2008, Schaffner 2008

³Non vidi; but note Albino 2013, directly related to the material at hand.

^{*}For a handbook account, see Fortson 2010 99.

denominatives in dynaft with causative accent, e.g. dribn-'goal' > arthdyn-'seeks as goal', maintra-'spell' → manitrign-'tecties spells', and a number of others.' Thus apart from such special developments, thematic denominatives in particular show the following pattern, the thematic stem, with the thematic vowel normally in its e-grade form, is followed by accented *-ij/l6-, as in verbs of the type Gk. κοσμώω 'arrange' (cf. κοσμώ 'order'), Arm. gorsem 'work, do' (cf. gors 'work'), and Ved. amitrayáti 'be hostile' (cf. amitra-'enemy').

2 The problem of Ved. putrivánt- etc.

The descriptive anomaly of the thematic denominatives in -Fyá- (and also -iyá-) based on Indic a-stems (Indo-European a-stems) is therefore apparent, and remains unexplained: a denominative based on Ved. putrá- 'son' should have the form †putrayáor (with lengthening) †putrāyú- (neither of which is attested), and not (as in the Rig-Veda) putrīvā- 'desiring sons'. The thematic denominative formation in -īvā- is duly noted in the handbooks,7 but the treatments are superficial and little attention has been devoted to the problem otherwise. What can be said, to begin with, about the extent of the phenomenon? A judgment on this point is compromised by the existence of ambiguous forms. Thus according to Whitney and Macdonell, Ved. tavisīyá-'be strong' is a denominative of the type in question, based on the thematic adjective tavisá- 'strong'; but already Grassmann (1872 s.v.) saw that tavisīyá- might rather be based on the noun taivisi- 'strength', in which case it would have nothing to do with the thematic type under consideration.8 For unambiguous forms, however, there is even a question as to whether the pattern is restricted to thematic stems. Such a restriction is claimed by Renou, in his treatment of the Vedic material; yet (as we will see) there are post-Vedic -iya- denominatives based on consonant stems and feminine a-stems. Further, Morgenroth (1977:165) has claimed that the formation is restricted to the active; yet some middle forms are attested. Finally for the formal side, how should we understand the alternation between -iya- and -iya-? Thus putriyá- in the Samhitā text of the Rig-Veda contrasts with putriyá- in both the pada-text and the Atharva-Veda; and in the Rig-Veda, ánniyant- 'seeking food'-clearly a formation of this type (cf. ánna- 'food') - shows short /i/ even in the Samhitā text. Turning to semantics: what can be said about the meaning of these forms, especially the prominent appearance of a desiderative sense, as in putrivá- itself? This issue has been discussed more generally in connection with other denominatives (see especially Tucker 1988 and Fortson 2003), and will concern us further below. Finally, for now: how should this formation be viewed from a historical/comparative perspective? There is no consensus on the matter, as readily seen from the hodgepodge of proposals cited in Thumb-Hauschild (1959:356) and occasionally found in other literature, to be reviewed below.

3 Survey of the a-stem data

It will be helpful to begin with a survey of the data, presented more systematically than one finds in the handbooks. Whitney (1889;389) observes that "Not fifty atems of this form are quotable," and this agrees, more or less, with Sutterlin's estimate (1906;38) that there are between 41 and 60 such forms. But particular interest attaches to the fact that there are barely six or eight forms of this type in the Vedas and Brähmanas, as follows: "9

- (1) a. (adhvará-→) RV adhvarīyā- 'perform the sacrifice': adhvarīyāsi 3×, adhvarīyātām 3×
 - b. (ánna- →) RV ánniya- 'seek food'11: ánniyate 4.2.72
 - c. (cárana- →) RV caraniyá- 'follow a course': caraniyámánā 3,61,30
 - d. (? taviṣá- →) RV taviṣīyá- 'be strong': taviṣīyāte 8.6.26a, taviṣīyāntas 5.85.4d, taviṣīyāmāṇam 2.30.8c
 - e. (putrá-→) RV putriyá- 'desire a son/sons': putriyántas 7.96.4b;
 AV putriyá-: putriyánti AV-Ś 14.2.72b, putriyantu AV-P 18.14.2b
 - f. (māmsá- →) Br.+ māmsīyá- 'long for flesh': ŚB, GB, ĀpŚrS
 - g. (? rátha- →) RV rathíyá- 'drive': rathíyántí 1.166.5d
 - h. (śapátha-→) AV śapathīyá-'utter a curse': śapathīyaté AV-Ś 2×, AV-P 2×

As already noted (\$2), taviṣṭyá- (td) should probably be eliminated, and similar doubts apply to rathɨpá- ((1g), cf. rathɨ- 'driving; driver').

The Indian grammatical tradition cites a great many such forms; the following provides a generous selection:

- (2) a. (ásana- [ŚB+] →) asanīya- 'be greedy for food'
 - b. (áśva- [RV+] →) aśviya- 'desire a horse'
 - c. (udaká- [RV+] →) udaktya 'wish for water'

^{&#}x27;See on these forms Jamuson 1983, 70 (arthiya-), 86 (maniniya-), and in extense Ch. IV (48-69) on a series of intransitive cases (ptáya- 'acts according to the truth', hulayáya- 'nests', and a number of others)

[&]quot;On estem denominatives in Anstolian, see Melchert 1997-134-7. I return later to the lengthening of the thematic word see his some of the Indic material. Left aside here (apart from a bree mention) is the fruncation" type (without thematic word). He I'll status of which is unclear; see Tucker 2004-549-91

⁽chiferently Tremblay 2008 24–5) for Old Iranian, Schaffner 2008 and Barber 2013, 297–9 for Greek.

"See e.g. Whitney 1889-189, Sutterlin 1906;33–60, Macdondl 1910 399, Brugmann 1916.235–6, Renou
1912 302 and 1961 \$160. Thumb Hauschild 1919-196, note also Pan 7 4-35.

^{*}Favoring tans- + tansma- also Sutterlin 1906.554, Renou 1952 303, Burrow 1973 362, Schaffner 2008.

⁹In fact, as Sütterlin notes, there are more -ōjes- forms of this type than -ōjes- denominatives based on s-stems, for which he gives a count of between 27 and 34 tokens.

[&]quot;Here and below, abbreviations of literary texts mainly follow those used by Monier Williams
"This is the traditional gloss; see, however, Albino 2013 on possible alternative conceptions of the meaning.

¹² Sec especially Pan. 7.1.51, 7.4.33-6.

- (edaka- [Mbh+] →) upedakīya- 'behave as a sheep towards'
- c. (omkāra- [Manu+] →) omkarīya- 'utter/be the sacred svllable om'
- f. (odaná- [RV+] →) odaniya- 'wish for boiled rice'
- g. (kurkurá- [AV+] →) kurkurīya- 'bchave like a dog'
- h. (ksīrá [RV+] →) ksırrya- 'desire milk'
- i. $(dravina [RV +] \rightarrow dravināya 'desire goods'$
- i. (dhána- |RV+| →) dhanīya- 'desire wealth'
- k. (prāvāra- [Mbh+] -) prāvārīya- 'usc as a cloak' (Pān. 3.1.10)
- (prāsāda- ∫Sū + | →) prāsādēya- 'imagine oneself to be in a palace'
- m. (yóga- [RV+] →) yogēya- 'treat as yoga'
- n. (lavaná- [ŚBr+] →) lavaniya- 'desire salt'

For this material, the preponderance of vocabulary involving everyday concerns (food, animals, clothing, etc.) seems striking.

What is most interesting about the data from sura literature and from epic Sankiri is that there is so little of it. For the sūtras, I have found only the single form (ghanda 'bane, destroyer', also adj. 'solid, compact' $[RV+] \rightarrow jghaniya$: long for solid food' ($hpDhS_i$, KāryŠS schol.), where we may note again the reference to food. For the epics, the single form (snjja- 'prepared' $[Mbh, Kāryš] \rightarrow)$ snjjiyare 'prepare one-self' (Mbh), allegedly deadyctival, is widely cited in the handbooks as an example of this kind (so e.g. Whitney 1880;380 and Renou 1960;480). But apart from ghaniya- directly above, and the possibility of $(taniya;a \rightarrow) taniyiya$: (1d), there are virtually no other cases of deadjectival denominatives in this category; and indeed Oberlies (2003;300) has provided an entirely different (and I think more credible) account of the form. 10

In contrast, the type is well-represented in Classical Sanskrit, including Kāvya and other poetry, fable literature, romances, and treatises on topics such as poetics, medicine, and religion. A generous selection of this material includes the following:

- (3) a. $(kairava-[Mbh+], koraka-[R+] \rightarrow) kairavakorakiya- 'resemble a lotus bud' (Śārṅg<math>P$.)
 - b (ksīroda- [Mbh+] →) ksīrodīya- 'behave like the ocean of milk' [Sāh.]
 - c. (ksétra- [RV+] →) ksetrīya- 'desire s.o.'s wife'14 (Śântiś.)
 - $d. \hspace{0.5cm} \textit{(gehá- [VS+] \rightarrow)} \textit{ gehiya- `take s.th. for a house' (VarYogay)}$
 - c. (candrakānta- 'moon-stone' [Suśr., Megh. etc.] →) candrakāntīya- 'be moonstone-like' (Śārṅgadhara)
 - f. (citrá- [RV+] →) cstrīya- 'be surprised' (Hear, etc.)
 - g. (jñāna- [ŚāńkhŚS+] →) jñānīya- 'wish for knowledge' (Vop.)

- h. (duhkhá-[SB+] +) duhkhnya-'feel pain' (Hit.)
- (maháníla- [Mbb+], abhrá- [RV+], jāla- [AV+] →) mahānílábhrajāliya- 'resemble a dense mass of black clouds' (Vās.)
- (mitrá-[RV+]→) mitríya- 'make s.o. a friend, treat as a friend' (Kāvya, also RV Anukr.)
- k. (śivá- [RV+] →) świya- 'treat s.o. like Śiva' (Vop.)
- (śrngāra- [Kāvya] →) śrngārīya- 'long for love' (Śāntiś.)
- m. (śaivāla- [Mhb+] →) śaivāliya- 'resemble the ś. plant' (Vās.)
- n. (śvábhra- [RV+] →) śvabhriya- 'regard as a hole' (VarYogay)
- (saroja- n. [Kāvya] →) sarojīņa- 'be like a lotus' (Kāvya)
- p. (sahasrayudha- [Sāh., Kathās.] →) sahasrāyudhīya- 'resemble one who has 1,000 weapons' [Sāh., Kpr.]
- (suta- [Manu+] →) sutīva- 'treat like a son' (Sāh.)
- r. (sthala- [TS+] →) sthaliya- 'regard as dry land' (VarYogay)

Nor surprisingly for Classical texts, the formation can readily be based on compounds, as in kainwakwakipa-resemble a lotus bud' (3a), from Śārngadhara's treatise on horticulture (a 13th-century production compiled from carlier sources). So also (3e), again from Śārngadhara, (3t) from Subandhu's Vāsawadatata (3th c. c.e.), and others. This feature reinforces the impression that, as Renou notes for the post-Vedic period (1961:§360), the formation achieved a degree of productivity, perhaps by a relatively cardy stage.

4 Preliminary descriptive remarks

It is this productivity that probably accounts for the rare examples—either late or from grammatical sources—based on consonant stems (4) and feminine 4-stems (5), including not only forms based on compounds, but even one (5c) based on a personal name:

- (4) a. (kartár- →) kartrīya- 'act as agent' (Vop.)
 - b. (mātar- →) mātrīyatī 'treat as a mother' (VarYogay, Pān.), mid. 'desire a mother' (Pān.)
 - c. $(rajan- \rightarrow) rajiya- 'treats like a king'? (Pāṇ. 1.4.15)$
- (5) a. (aśnitapibatā· →) aśnitapibatīya- 'intend to invite to eat and drink' (Bhaṭt.)
 - b. (khatvā- →) khatviya- 'treat as a bedstead' (Pat. etc.)
 - c. (tilottamā- →) tilottamīya- 'represent the Apsaras T.' (Bhām.)
 - d. (priyā- +) priyiya- 'think s.o. to be another's mistress' (HYog.)

[&]quot;I.e., sayas -> denominative sayayati/-te 'make s.th. ready' (Mbh, R), with causative sayayate 'get ready' (Mbh) and its passives sayyate/sayiyate 'be made ready' (Mbh).

[&]quot;Evidently based on the derived meaning ('fertile soil' ->) 'fertile womb' or 'wife' (Epic etc.) of kniem'field'

[&]quot;See Stirterlin 1906:558-60 on the secondary nature of this material.

But the claim (by Morgenroth, cited in \$2) that the formation is restricted to the active appears to be mistaken. Even if we discount the forms belonging to turvityid (rid) as well as the cpts form sujipate (\$3) with n. 13), we still find other forms inflected as middles (kauravakorakiyate (33), citriyate (3f)), including RV carannyakmana (tc). There is thus no problem with assuming the existence of old for relatively old) middle forms of this type. Nevertheless, the fact that the Rig-Vedic form is a participle and not a finite form may be of some interest, as we will see later.

For the alternation between long and short βI (\$a), the variation between the Samhitä text of the Rig-Veda and the pada-pātha is superficially similar to the variation seen with actual i-stem denominatives: thus Samhitā ($kassi-'stee' \rightarrow j$ -kassiya-'be wise', but pada-pātha kssiya-', like Samhitā adlivasiya-' (ia), putriya-' (ig) but pada-pātha adlivasiya-'putriya-'vatbiya-'(vai). But, as we have seen, even the Samhitā text of the Rig-Veda has a short vowel in <math>ainniya-' (ib); and for the Atharva-Veda short-vowel forms pusriya- and also (i-stem-based) jasiya-' seek a wife', corresponding to long-vowel forms in the Rig-Veda, Whitney (1905:767 ad AVŠ 4a-2.72) commented that these denominatives "flava-right to their short i," citing the explicit mention of this in the Atharva-Veda priti-fakbiya (iii.18 = CA 3.1.18, Deshpande 1997:388). There is, then, a need to provide an explanation for such short-vowel -iya- forms in both the Rig-Veda and Atharva-Veda priti-fakbiya (Veda priti-fakbiya).

For the semantics: Renou noted, for the Vedic material, a "légère insistance du sens 'désidératif" (1952:302). But this does not account for the totality of the data, even in Vedic: a more ordinary denominative sense 'do X' (arising from the meaning of the base word) is clearly found in RV adhvaryhé. (a) and AV sapathhjé. (th); "and a meaning 'treat like X' (thus patriyé-in part 'treat like a son') is authorized by Pāṇini (3.1.to) and otherwise documented for a number of post-Vedic forms (e.g. (3)), (3k), (3q)), beside still other senses, such as 'resemble X, behave like X' (e.g. (3a), (3b), (3c), (3i), (ii), (an), (ao)).

5 Earlier approaches (part 1): inherited (or via inherited patterns)

5.1. Let us turn to the historical/comparative analysis. The most widespread assumption is the one reflected in the assertion by Thumb-Hauschild (1959:336): "Die Bildung ist sicherlich alt, vgl. lat. equire 'rossen': equus., castulire 'brinstig scin': castulas." And One cannot deny the superficial attractiveness of this comparison, given the fact that

thematic denominatives in Italic display i-conjugation (i.e., they belong to the fourth conjugation, in Latin terms), which resembles the "i-conjugation" in putryant- (as opposed to the expected "a-conjugation" in -ayá- or -ayá-). But this connection is at best a case of obscurum per obscurius (the i-conjugation of thematic denominatives being a notorious problem of Italic historical grammar) and I think is ultimately to be rejected. First of all, the i-conjugation of thematic denominatives is general in Italic (e.g. Lat. servus 'slave' → servire 'be a slave', saevus 'cruel' → saevire 'be cruel'; in Sabellic, e.g. U. seritu/seritu 'observato, servato', belonging formally with Lat. servire) and is not restricted to a few animal-husbandry terms like equite.19 The arguably desiderative semantics shown by a few such terms may thus be secondary, in which case the proper comparison - if a comparison is to be made in the first place - is with the entire category of Italic thematic denominatives, and not just these few forms (a point already clear to Bezzenberger). For this difficult problem of Italic morphology, earlier proposals have attempted to justify actual i-stem sources for the Italic i-conjugated denominatives. But as I have discussed elsewhere (2012:556-64), this approach is fundamentally flawed, and the Italic forms with i-conjugation, despite appearances, may actually go back to ordinary thematic denominatives of the familiar κοσμέω type (§1). If that is so, then forms like Lat. equire, servire, saevire, U. seritu, etc. would not actually continue an inherited i-formation of any kind. Yet forms of the type Ved. putriyá-/putriyá- necessarily go back to a prototype with earlier long or short /i/ preceding the *-je/o- suffix, suggesting that the comparison between the putriyá-/putriyátype and Latin forms like equire, servire etc. has little chance of being valid.

5.2. According to a more recent (and avowedly tentative) proposal by Bingit Olsen (2006:237 n. 9), the basis of the Sanskrit type is indeed an i-stem form ("pusli-"), which is then extended by the zero grade of the athematic optative suffix (*ih-1), followed by the denominative suffix (*i-i/4): thus putripid- ("pusli-ii, i-i/4). Ceteris with the athematic optative suffix is "infixed" between the noun stem and the thematic denominative suffix. Brief notice of this theory was taken by Martzloff, who commented (2006:687) that "Thypothèse... nous semble échapper à la démonstration"—an evaluation with which one must agree. Indeed, the matter can be put more strongly. The proposed formation, unexampled elsewhere, is highly improbable morphologically; and the reconstruction with the optative suffix, designed to account for the desiderative meaning, carries its own problems: as we have seen, non-desiderative meanings are also found, and (as we will see later) the desiderative meaning itself may even be indicative of a late syndrome, with no basis in anything inherited.

Nevertheless, the idea that the Indic thematic denominatives in -iyá- have their

[&]quot;Similarly for the RV hapax multiple-(ig), traditionally fahren wollen' (so Grassmann, s.v.); but there is nothing in the context of 1.166 3d that favors this (multiplaining pri jubia disadible) "every plant bends forward as if driving a chariot", Jamsson and Bereton 2014;365)

a"This conception follows Bezzenberger (1903:2022-3); cf. more recently Nussbaum (1975:161 n. 114): "the parallelism of Skt patria-'son' - parripani-'destrous of offspring' [seil, with Lat. cataclas' cub, pup, whelp' cataliar' be in Neet." BV | s striking "

[&]quot;In addition to equire and antiller, also nevier be sexually excited (of males)' (Apul. Apul. 38, cf. Fettus 40.5.14.e. min. for transmitted miner). cf. perhaps serus 'post, stake', survalus' shoot, aprous' (None of these verbs is to be found in de Vaan 2008, despite their prominence in historical/comparative treatments of the Stx. purryse' eype.)

origin in actual *i*-stems like *puti-*i*- is itself not inconceivable, in at least two respects (\$\$6,3-6.4).

5.3. The first of these involves the well-known category of so-called oir formations, in which thematic forms alternate with forms in long t (i-stem instrumental singulars in origin), in constructions with auxiliary verbs, especially for and bins (see e.g. Whitney 1889-401-3). Thus, in yet another suggestion about the background of forms like putriyaint. Thumb-Hauschild (1959:336) note the relationship between thematic stems and the fil of oir formations, and considers it probable that there is a connection between our formations and thematic denominatives in -pins -20 Now or behavior (rather predictably) is certainly attested for some of the Classical material, as in forms like the following:

- (6) a. ksetriya- (3c): ksetri-kṛ- (Kād., AgP.)
 - b. citriya- (3f). citri-kara- (Lalit.), citri-kṛta- (Śak.)
 - mitrīya- (3j): mitrī-kṛ- (RAnukr., Kām. etc.), mitrī-kṛta-, mitrī-bhū-(Kathās.)
 - d. sutīva- (30): sutī-bhūta- (Kathās.)
 - e. sthaliya- (3r): sthali-bhù- (Nais.)

Some of this material is quite late: thus kṣarr-kṛ (: kṣarr̄yu- (oa)) in Bāṇaḥaṣṭa's prose romance Kadambarī (rth cent. CE) and in the Agni-Purāṇa, or sutī-bhūta- (: sutīyu- (od)) in the Kathūtaritāgara (tith cent. CE), and so on. Still, one can cite, for the sūtra form ghanṭ̄ya- (Sa), a rrī form ghant-bhūta-, atrested as carṭy as the Rāmāṇyan and the Harivanūta (also in Sušrura), alongside later material like ghant-kṛ (Daśar, and ghant-kṛa- (Bhṛr.). But for the forms from Veda and Brāhmaṇa, there is virtually notting of this kind: to the best of my knowledge, there is only a form purā-bhū- in the Bhāgavata-Purāṇa, and purā-kṛta- in the Raghnranūta of Kālidāsa and in the much later historical poem Rājataramanīt (perhaṣs a 12th-century composition). This makes it tolerably clear that despite the position taken by Thumb-Hauschild, the denomnature vepp eurāy-is likely has no connection historically with the synchronic Sanskrit eri formation. There is little surprise, then, that this denominative type goes entirely unmentioned in the comprehensive study of the eri formation by Balles (2000).

5.4. But there is another sense in which an isstem basis is conceivable, this concerns the historical background of the ori formation tuself, as educidated in a celebrated paper by Jochem Schindler (1980). According to Schindler's theory, subsequently developed by many others, the alternation between o-stems and isstems is an inherited feature of Potto-Indo-European, only one manifestation of which is the Indic or formation. In principle, then, it is worth considering whether the putryinin-type goes back to such

i stem variants of e-stems. There may in fact be some limited (if suggestive) evidence for old i-stem bases of this type, as in Ved. carnini-'movable, active' (RV 8.24.25 only) beside caramyid- (ic.); similarly, RV + patrin-'possessing children' beside patriyid-, can be interpreted (like other such n-stem adjectives) to have had a plain i-stem basis originally. There is, however, no trace of i-stem forms for the other Vedic material (there is no †adhnari-, no †anni-, etc.); thus, if we are to operate with a form like [*]patri- as the basis for patriyidar-, we must explain not only why the i-stem form was favored for the denominative formation related to patri- (that is, why there is instead no †patriyidari, the predicted form), but we must also explain how this pattern of making i-denominatives out of thematic stems spread to other thematic nouns like adhnari-i, siman-, and others.

Conceptually, these problems are reminiscent of those posed by the Italic thematic i-denominatives, as already indicated (§5.1). Yet this similarity does not authorize an assumption that the two formations reflect something inherited; and a truly old formation is in any event disfavored by the lack of an Iranian counterpart to the purrystype, although this fact by itself cannot be conclusive.

6 Earlier approaches (part 2): via inner-Indic developments

We are led, then, to consider the possibility of inner-Indic development, and several theories of this kind have already been proposed.

6.1. Following on a brief discussion of denominatives based on resonant stems, ²⁴ Barber (2013:225) observes that the putripis rype²⁴ "could perhaps represent some secondary extrension of Sievers' Law," but is not likely to represent "the direct ourcome of Sievers' Law," The assumption here, presumably, is that these are at bottom truncated denominatives (cf. n. 6 above), with a Sievers-like alternation between yab: (for light roots) and "yab" (of her above), with a Sievers-like alternation between yab: (for light roots) and yab (for leavers-like alternation between yab: (for which is the size and the size of the heavy-root version of the heavy-root version 'ybd', but also its appearance mainly in the form 'ybd' (e.g. after the pattern of istem denominatives, where 'ybd' and 'ybd' alternate). There is, in any case, no reason to think that the formation has anything to do with truncated thematic denominatives.

6.2. According to Sulterlin (1906:558-9), the putripsi-type is nothing other than the i-stem denominative pattern itself, which has spread beyond the i-stems to other stem types, on the basis of parallel formations – that is, cases in which i-stems had synonymous variants that were thematic or beloneed to still other stem classes. This

^{20 &}quot;Zudem darf nicht außer acht gelassen werden, daß nommale a-Stamme auch in der Verbalkomposition den ungang J zeigen, 2.8 nit har – zu nie 2.4...; ein Zusammenhang dieser Formen und der Denominativa auf -jauf ist daher wahrechentlich."

[&]quot;Less probative, but perhaps of some interest, are some relatively early forms with patrs- as a derivational base or as the first member of compounds: patralas' 'daughter' (Manu, Mbh+), patrapatra 'daughter's son' (SainkhSr, aparipatra 'daughter's son' (SainkhSr, aparipatra 'daughter's son')

³² On form and meaning, see especially Tucker 1988:109-10 on Ved. vysäyáte 'act like a bull' beside vysanyate 'be lustful'

³³Oddly identified as "the Classical Sanskrit putriyati type" by Barber, perhaps thinking of its productivity in the classical language (cf. (3) above).

would be plausible if there were a sufficient number of instances that would help account for the earlier material in particular; but this does not seem to be the case. The closest that Sutterlin can come to illustrating the kind of pattern his theory requires is a set like distin-'corruption' (AV +) beside its denominative dustynd-'become corrupted' (Pāṇin), along with thematic dustaria-'corrupted' (first in the Srauta-Sūtras) and the feminine a-stem abstract dustaria- (in epic Sanskrit). The pattern is reminiscent of what we saw in connection with the possibility of an i-stem putri- (§5.4, with n. 21); but the explanatory value of such relatively late material, especially for the older forms, is very limited.

6.3. In a similar way, Sutterlin called attention to striking semantic convergences ("Bedeutungsanklänge") among the thematic-based -jua- verbs: he notes (1906);559-60) that there is an abundance of terms that fall within certain semantic categories, such as words relating to the family, to food and drink, and so on. But this observation, as we have seen, is more germane for the later material than the early forms, and thus is not helpful for interpreting the background of the formation.

6.4. We cannot omit mention of the often-noted co-occurrence of putriyá- (RV 7.96.4b) with janiyá- (RV 7.96.4a), in a parallel construction (semantically, morphologically, and syntactically) in consecutive pådas of the same stanza:

 janīyánto nv ágravaḥ putrīyántaḥ sudánavaḥ sárasvantam havámahe

"As bachelors in search of wives, in search of sons, possessing lovely gifts, we call upon Sarasvant." (trans. Jamison and Brereton 2014:1004)

Yet this juxtaposition, in and of itself, does not prove much: It does not show, for example, that the form of putrith- must be due to janipin-, even though this assumption is commonly held. ** In fact, the only other Rug-Vedic occurrence of janipin- (4-17.16c) also involves parallel denominatives with desiderative meaning:

(8) gavydnta...
aiskydnto...vtjidyantalp**
janiydnto...vtjidyantalp**
Cecking cows, seeking horses, seeking prizes...; seeking wives...**
(trans. Tamison and Brereton 2014;183-4)

At least in this case, jansyá- did not induce a thematic denominative †aświyá-, like putrsyá-.²⁷

6.5. If we look more closely at the attestations of these forms in the texts, it is the prevalence of participial forms (cf. \$4 on RV caranīyámanā), together with the prominent desiderative sense, that is particularly striking; and indeed, as Fortson has shown (2003:67-73), these two features are intimately linked, since denominatives with desiderative meaning are primarily attested as participles. In the context of Sanskrit denominative verbs, these features have both been studied by Elizabeth Tucker, who convincingly argues, in her 1988 paper on innovations in the system of Indic denominatives, that they are indicative of late developments (see especially 1988:95-109). She has also made the interesting suggestion (1988:113 n. 23) that the "morphologically marked" denominatives in -rya- and -asya- "may be closer to the realities of the Old Indic used in everyday speech during the Vedic period." For the -iya- denominatives, this suggestion may be supported not only by the prominence of these forms in the grammatical tradition and their scarcity in Vedic language (the two points Tucker mentions), but also by the overall post-Vedic profile these forms display, such as their general absence from sûtra-literature and from epic language, and the concentration of vocabulary in certain everyday semantic fields, as already described.

6.6. As for the vowel-length alternation (\$a): despite Stitterlin (1906;560), who aligns this alternation with the similar one scen in i-stem denominatives (\$\$\frac{8}{4}\), obtained a ligns this alternation is probably that nothing to do with nominal i-stem alternations like pairs — pairst. Rather, the alternation is probably best considered in terms of the prosodic patterning that governs thematic denominatives in -agai- and (with lengthened thematic vowel) — Agai-, as clucidated by Inster (1907). A Note further that for nearly all of the forms in Vedic poetry, the length of the fi/ is metrically predictable: thus the forms with fi/ occupy positions in the cadence of dimeter and trimeter verse where long vowel is required:

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(9) ...adlmariydsi # (Jagati cadence: RV 2.1.2c, 10.91.1td)
...caruniydmana # (Tristubh cadence: RV 3.61.3c)
...adlmariyatdm # (8-syllable cadence: RV 1.23.1b, 4.9.52)
...apaathyutd # (8-syllable cadence: AV-5.3.14.b, 10.15b)
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and in contrast, *ánniyate* (RV 4.2.7a) occurs in the early-caesura break of a Tristubh line $(\# \times \times \times \times || \text{ ánniyate } || \times \times \times \#)$, where short $/\nu$ in that syllable is all but required. The only form that may actually be unpredictable metrically is pāda-initial

²⁴E g. Bloomfield and Edgerton 1930:1.155, still followed by Albino (2013, 74 with n. 52).

²⁴Or vajayantah, with denominative accent? See next note.

^{**}Le as if n\u00e4njavannih, denominative participle to n\u00edj\u00e4 "strength, booty"; similarly e.g. Geldner ("den Siegerpens begehrend"), Tiwker ("secking booty", 1988-99), Elizarenkova ("sienasa ao\u00edfavitat," 1989-379), Witzel, Goto, and Scarlata 2013 146 ("nach dem Siegespreis strebend") but differently Thierine ("Kraft zeigend", 1980-10), is causative to 199 five strong?

in it is unclear how much weight to assign the advisal- attested exclusively in grammatical literature ((2b) above).

^{**}See also Insler 1987 and 2005 for brief notice of *1981-/-1981- and -18981-/-11981- in these terms.

²⁴ Hence Albino's suggestion (2013:74) that the short /√m diminimate results from an actual metrical shortening. See also Albino (libd., with references) on the unexpected root accent, evidently based on the Grund wort dimate, which follows almost directly in the cadence of the same pada.

putryintah (?), where we have variation between long and short vowel between Rig-Veda and Atharva-Veda (cf. # putryinini $4N \cdot \hat{S} \cdot 1_4.2.72b$). As pointed out to me by Dieter Gunkel, *posodic lengthening in thematic denominatives is ultimately related to the avoidance of three consecutive light syllables. Viewed in this light, *dominate in # $\times \times \times | | \text{daminyate } | | \times \times \# (RV \cdot 4.2.7a)$ recovers essentially the pattern of "unlengthened" *apa- denominative stems with heavy first vallable, cf. *denominative in that case, one could say that—just as the underlying length of the (first) /a/
in deva(yii)—is effectively indeterminate—the underlying length of the fif in a form
like dnniyate is equally so, a point that should be taken into account in evaluating the
historical background of the entire formation.

7 Conclusions

The results of the "house cleaning" operation promised at the outset, with attendant updating and problematizing, are predictably modest. Still, the following points may contribute to an eventual solution to the problems posed by the Vedic thematic denominatives in -0y4-(~-y4+):

- (11) a. The traditional comparison with Latin o-stem denominatives like equive
 (and, more generally, Italic o-stem denominatives with i-conjugation) is
 probably specious, and an inherited formation of any kind is unlikely.
 - b. The type is probably not directly related to the synchronic or formation, though archaic i-stem alternants of thematic stems could have played a role (even if various details remain obscure).
 - c. The overall morphological and semantic profile suggests a recent development, similar in kind to the innovatory denominatives discussed by Tucker (1988); and the formation may be proper, as she suggested, to the spoken language.
 - d. The length alternation is probably related to the widespread "rhythm rule" identified by Insler; thus the historical source of -iyid- for these forms is as likely "-iyid- as "-lyid-.

Abbreviations

CA = Śaunakīyā Caturādhyāyikā (Deshpande 1997).

Thumb-Hauschild 1959 = Thumb, Albert. 1959. Handbuch des Sanskrit. Part 2: Formenlehre. 3rd ed. rev. by Richard Hauschild. Heidelberg: Winter.

References

- Albino, Marcos. 1997. Die Denominative im vedischen Sanskrit. Doctoral dissertation, Universität Erlangen. [Non vudi.]
- 2013. "Philologische Beitrage, 2: Vedisch ánniyant. "?"." Electronic Journal of Vedic Studies 20.3:74-7. Accessed December 22, 2015. http://www.ejvs.laurastanacad cmy.com/
- Alfiert, Luca. 2008. "Alcune note sui denominativi indoeuropei c il suffisso *-ye/o-."

 Indogermanische Forschungen 113:29-58.
- Balles, Irene. 2006. Die altindische Cvi-Konstruktion: Form, Funktion, Ursprung. Bremen: Hempen.
- Barber, P. J. 2013. Sievers' Law and the History of Semivowel Syllabicity in Indo-European and Ancient Greek. New York: Oxford University Press.
- Bezzenberger, Adalbert. 1903. "Über das lange i einiger Ableitungs-Elemente." In Feog: Abhandlungen sur indagermanischen Sprachgeschichte August Fick zum siehenzugsten Geburstsage gewidmet von Freunden und Schülern, 153-214. Göttingen: Vandenhoeck & Ruprecht.
- Bloomfield, Maurice, and Franklin Edgerton. 1930. Vedic Variants: A Study of the Variant Readings in the Repeated Mantras of the Veda. Philadelphia: University of Pennsylvania Press.
- Brugmann, Karl. 1916. Grundriß der vergleichenden Grammatik der indogermanischen Sprachen. Vol. 2, Lehre von den Wortformen und ihrem Gebrauch. Part 3. 2nd ed. Strassburg: Trübner.
- Burrow, T. 1973. The Sanskrit Language. 2nd ed. London: Faber.
- Deshpande, Madhav M. 1997. Śaunakiyā Caturādhydynkā: A Prātiśākhya of the Śaunakiya Atharvaveda, with Commentaries Caturādhydyibhāya, Bhārgava-Bhāskara-Vṛtii and Pañsasandhi. Cambridge, MA: Harvard University Press.
- de Vaan, Michiel. 2008. Etymological Dictionary of Latin and the Other Italic Languages. Leiden: Brill.
- Elizarenkova, T. Ja. 1989. Rigveda: Mandaly I-IV. Moscow: Nauka.
- Fortson, Benjamin W. IV. 2003. "Desiderative and non-desiderative denominatives in Vedic Sanskrit and related forms." In Harnard Working Papers in Linguistics 8, ed. Cedric Boeckx, Claire Bowern, and Jay Jasanoff, 67–82. Cambridge, MA: Department of Linguistics, Harvard University.
- 2010. Indo-European Language and Culture: An Introduction, 2nd ed. Malden, MA: Wiley-Blackwell.
- Geldner, Karl Friedrich. 1951. Der Rig-Veda aus dem Sanskrit uns Deutsche übersetzt und mit einem laufenden Kommentar versehen. 3 vols. Cambridge, MA: Harvard University Press.
- Grassmann, Hermann. 1872. Wörterbuch zum Rig-Veda. Leipzig: Brockhaus.

³⁰ Based on unpublished work that elaborates on Insler's basic insights about secondary lengthenings.

- Insler, Stanley. 1987. "On short vowel stem denominatives in Vedic." Paper presented at the 6th East Coast Indo-European Conference, Yale University.
- ——. 1997. "Vedic denominatives to thematic a-stems." In Sound Law and Analogy: Papers in Honor of Robort S. P. Beekes on the Oceasion of His 60th Birthday, ed. Alexan-der Lubotsky, 103-10. Amsterdam: Rodopi.
- . 2005, "Problems of Vedic -ya-present formation." Paper presented at the 24th East Coast Indo-European Conference, University of California, Berkeley.
- Jamison, Stephanic W. 1983. Function and Form in the -áya-Formations of the Rig Veda and Atharva Veda. Göttingen. Vandenhoeck & Ruprecht.
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigueda: The Earliest Religious Poetry of India. Oxford and New York: Oxford University Press.
- Macdonell, A. A. 1910. Vedic Grammar. Strassburg: Trübner.
- Martzloff, Vincent. 2006. "Les thèmes de présent en yod dans l'épigraphie italique et en latin archaïque." Ph.D. diss., Université Lumière-Lyon II.
- Melchert, H. Craig. 1997. "Denominative verbs in Anatolian." In Studies in Honor of Jann Pulvel. Vol. 1, Ancient Languages and Philology, ed. Dorothy Disterbeth, Martin Huld, and John Greppin, 131–8. Washington, DC: Institute for the Study of Man.
- Momer-Williams, Monier. 1899. A Sanskrit-English Dictionary. 2nd ed. Oxford: Oxford University Press.
- Morgenroth, Wolfgang. 1977. Lehrbuch des Sanskrit: Grammatik, Lektionen, Glossar. 2nd ed. Munich: Hueber.
- Nussbaum, Alan J. 1975. "F in Latin denominative derivation." In Indo-European Studies II, ed. Calvert Watkins, 116–61. Cambridge, MA. Department of Linguistics. Harvard University.
- Oberlies, Thomas. 2003. A Grammar of Epic Sanskrit. Berlin: de Gruyter.
- Olsen, Birgit A. 2004. "Another account of the Latin adjectives in -idus." Historische Sprachwissenschaft 116:234–75.
- Renou, Louis, 1952. Grammaire de la langue védique. Lyon: IAC.
- . 1961. Grammaire sanscrite. 2nd ed. Paris: Adrien-Maisonneuve.
- Schaffner, Stefan. 2008. "Die indogermanischen Denominative auf "-je/6-, die Etymologie von griechisch åråλλαμα, åråκας und die Entstehung des historischen griechischen Verbalakzents." Paper presented at the XIII. Fachtagung der Indogermanischen Gesellschaft, Salzburg.
- Schindler, Jochem. 1980. "Zur Herkunft der altindischen rori-Bildungen." In Lausgeschichte und Erymologie: Akten der VI. Fachtagung der Indagermanischen Gesellschaft, Wien, 24–28 September 1978. ed. Manfred Maythofer, 186–93. Wiesbaden: Reichert.
- Sutterlin, L. 1906. "Die Denominativverba im Altindischen." Indogermanische Forschungen 19:480-577.
- Thieme, Paul. 1980. "Homerisch uváojuas." Zeitschrift für vergleichende Sprachforschung 94:124–40.

- Tremblay, Xavier. 2008. "Iranian historical linguistics in the twentieth century—Part two." UCIA Indo-European Studies Bulletin 13(1):1-51.
- Tucker, Elizabeth. 1988. "Some innovations in the system of denominative verbs in early Indic." Transactions of the Philological Society 86:93-114.
- 2004. "Denominative verbs in Avestan: Derivatives from thematic stems." In Indo-European Perspectives: Studies in Honour of Anna Morpurgo Davies, ed. J. H. W. Penney, 548–61. Oxford: Oxford University Press.
- Vine, Brent. 2012. "PIE mobile accent in Italic: Further evidence." In The Sound of Indo-European: Phonentics, Phonenics, and Morphophonemics, ed. Benedicte Nielsen Whitehead, Thomas Olander, Birgit Anette Olsen, and Jens Elmegård Rasmussen, 456–75. Copenhagen: Museum Tusculanum.
- Whitney, William Dwight. 1889. Sanskrit Grammar. 2nd ed. Cambridge, MA: Harvard University Press.
- . 1905. Atharvaveda Samhită, Translated, with a Critical and Exegetical Commentary. Ed. by C. R. Lanman. Cambridge, MA: Harvard University Press.
- Witzel, Michael, Toshifumi Goto, and Salvatore Scarlata. 2013. Rig-Veda: Das heilige Wissen. Dritter bis fünfter Liederkreise. Berlin: Verlag der Weltreligionen.

"Sleep" in Latin and Indo-European: On the Non-verbal Origin of Latin sōpiō

MICHAEL WEISS

λάμβανέ οἱ στέφανον, φέρε δ' εἴμιαλλον μίτραν, καὶ πτερόεντα νέον σύμπεμψον ἴμνον.

Pi. I. 5.62-3

x. The Latin verb spib to put to sleep, render unconscious has played a prominent role in theorizing about the accent—ablaut characteristics of the Proto-Indo-European root "supp. 'Edl aslicep' and, more generally, about the operation of the "Narten" ablaut system.' The chief question about spib is why this verb with causative semantics is a fourth-conjugation form with a long o in the first syllable and not typpet, the expected cognate of Ved. spibpish. The well-known account of Gerr Klingenschmitt (1978) explains spib as a reflex of the Narten causative "supp-ie- with a lengthened & grade standing in for the normal causative orgrade and with "sie- as the zero-grade of "sighe.' More recently Brent Vine has argued with good reason against the existence of such a surprising zero-grade of the causative suffix and sought to explain the Latin form from a Narten causative "supp-eie- with an accent-conditioned reduction of "-sie- of-igs-.' Although I am sympathetic to the Vine approach, I would like to take a page from our honoranda's book and examine in detail the philological facts and patterns

of attestation of the verb $s\theta pio$ before using this form to argue for phonological or morphological novelties.⁴

a. The first notable fact is that the idea "X causes Y to sleep" is never expressed by a form of sõpió in Old Latin.¹ Of course, a nonnagical individual cannot normalily make another go to sleep, but (s)he can render him unconscious through a blow or by drugs.º These and other sleep-inducing instrumental adjuncts may also function as inanimate causer-subjects. Thus we might expect to find a use for a deverbal causative comparable to Ved. nappaints, which itself is normally a cuphemism for 'kill'. There is one context in Plantus that seems to call for such a causative. In the Amphitory the slave Sosia returning to his house late at night sees Mercury hanging about. Sosia comments (205–8):

(t) Peril, dentes pruriunt; certe advenientem hic me hospitio pugneo accepturus est. credo misericors est: nune propterea quod me meus crus fecir ut vigilarem, hic pugnis faciet hodie ut dormiam. "I'm done for. My teeth arc chattering. For sure this guy is going to receive me with the hospitality of the fist. I think he's kindhearted. Now since my master made me stay up, this guy will really make me sleep with his fists."

For Plautus 'to make someone sleep' was apparently expressed facere (aliquem) ut dormiat (+ INSTR.). The theme of 'putting someone to sleep' is continued when Mercury trying to frighten Sosia addresses his own fists (302–4):

¹I would lise to thank Rolando Ferri, Michael Fontaine, Jón Axel Harðarson, Alexander Luborsky, Alan Nussbaum, Alexis Mansster Ramer, Giovanna Rocca, Guðrun Þórhallsdórtir, and James Zerzel for help and advice with the various pars of this paper. No endorsemens should be infered.

¹An idea partially anneapated by Walde (1906:584), though obviously not within the elaborated Narten theory

Wine 20032364. The attractiveness of Natren shaut for this root is significantly reduced if Knoonen 2013 **No **Pullyan**: correct in expansing 0.5 Mag th lift is accountary from node; The parallel cord to by Knoonen, ON *multis' riche predominant OWN form) for melule 'Swedshi', is normally explained as generalized from the combined effects of the preceding pand the available at that would have been expected in the data ag in and data, pl. (see Norean 1023 by). Thus seems necessary because initial me-does not regularly become and the size of the second parallel seed to the second of the second parallel seed to the second of the second parallel seed to the second in the size of seal and sufficient between selfs in the second parallel seed to the s

^{*}One cannot help but be struck by the differing philological treatments of Latin and Vedic in Kingenschmitt's 1978 arrick. The Vedic faces about note- are documented in painstaking detail, but not one word is spear on the atterations of signs. The forms of Latin are—or were in the 20th century—too familiar for their own good.

⁴For one apparent but insubstantial exception (non confinemo fro quad dracous saem soproi impetum) attributed—falsely, I believe—to Ennius, see below

Of course, children can be put to bed, but, as any parent knows, this is not the same as making them go to sleep. In any case, the normal Republican Latin idiom for 'to go to bed' is dominan ire (PL Cur. 183, etc.) or cultum ire (Cat. Agr. 5) and 'to make someone go to bed' is inhere dorminan ire (PL Mar. 693) or maders in an dominant (Caccil. 66).

On the bleached meaning of holds, which occurs often in threatening and negative statements, see Waginingen 1918. (All translations are my own, except as noted.)

As similar collocation with favor is found a number of times in Ooid with nonmaniformore as the direct object; Art 3 (4-5) and spaney gave fassions allow indications assumed There are also dorigo third caute deep sleep? Fast 1-421 not entit, as tries nonmaniformore than only the object of the ob

 agite, pugni, iam diu est quom ventri victum non datis: iam pridem videtur factum, hen quod homines quattuor in soporem collocastis nudos.

"Come on, fists, it's a long time since you've given my belly food. It seems to have happened quite a while ago when yesterday you put to sleep four men naked."

To which Sosia replies (304-6):

(3) Formido male,

ne ego hic nomen meum commutem et Quintus fiam e Sosia; quattuor nudos sopori se dedisse hic autumat: metuo ne numerum augeam illum.

"I'm really afraid

that I'm going to change my name from Sosia to Quintus (i.e. fifth).

This guy claims he gave four naked guys to sleep.

I'm afraid I'll increase their number."

In this passage Mercury's fists 'place men into sleep' (homines in soporem collocare), and this idea is taken up by Sosia as 'give men to sleep' (dare homines sopori). In fr. 3 of Cato's Libri ad Marcum filium we learn that rabbit is a sleep-inducing food:

(4) Lepus multum somni adfert qui illum edit. "Rabbit brings a lot of sleep to the one who eats it."

This is the earliest example of the Bring Sleep collocation, which has various lexical instantiations in later Latin. 10

3. As the preceding discussion shows, Old Latin literature did contain contexts calling for the causative of 'sleep', but evidently there was no synthetic expression for the dea—most importantly, not even sopher. In fact, this verb is virtually unattested in Olat." What function do forms of the verb sopher have when they first occur? If one

examines all instances of sopire occurring in Republican authors, one finds a striking pattern. All fifteen occurrences are forms of the "perfect passive participle" söpitus. 12 These are the examples in rough chronological order:

- (5) a. turn bis senos incubuisse sopitis (Val. Ant. hist. 6, ca. 80–60 BCE)¹⁸
 "Then twelve men fell upon them while they slept."
 - b. blandimenta... quibus sopita virtus coniveret interdum (Cic. Cael. 41, 56 BGE)
 - "Allurements because of which slumbering virtue sometimes closes its eyes..."
 - c. Cn. Pompeius excitavit illam suam non sopitam sed...retardatam consuctudinem rei publicae bene gerendae (Cic. Sen. 67, 56 BCB)
 "Pompey roused that custom of his, nor sleeping but hindered, of doing good service to the Republic."
 - d. Effice ut interea fera moenera militiai /...sopita quiescant (Lucr. t.29-30, ca. 55 BCE)

"Make all the fierce works of war sleep in peace."

- Quod genus in somnis sopiti ubi cernimus (Lucr. 3.431)
 "As happens when asleep we see in dreams..."
- f. Tu quidem ut es leto sopitus... (Lucr. 3.904)
 "You indeed, as you sleep in death..."
- g. Cum pariter mens et corpus sopita quiescunt (Lucr. 3.920)
 "When the mind and body equally sleep in peace..."
- Eadem aliis sopitu' quiete est (Lucr. 3.1038)
 "(Homer) sleeps in quiet like the rest."
- i. Castoreoque gravi mulier sopita recumbat (Lucr. 6.794)
 "And a woman falls asleep at the strong scent of castoreum."
- (Ea pars animi) sopira langueat (Cic. Div. 1.60, 44 BCE) "That part of the soul is languid in sleep."
- k. Ut sopito corpore ipse (animus) vigilet (Cic. Dip. 1.115, 44 BCB) "So that the soul itself stays awake when the body sleeps."
 - Hoc aeger sumpto ut somno sopitus diem obiit supremum. (Nep. Di. 2.4.35, ca. 34 BCE)
 - "Sick from this dose he (Dionysius) met his end like one plunged in sleep,"
- m. Sopitum fuisse regem subito ictu (Liv. 1.41.5, ca. 30 BCE)14
- "(She reported) that the king was unconscious from the sudden blow."

[&]quot;The verbs dary/donare also take SLEP as a direct object in a number of later passages! Nep. Dr. 2.4.35 me agends ners Done patentae, para seperem mediates dare cogn!" He (Disroysius the Younger) forced the doctors made he father shope deeply lets Don have the possibility of falling with him? Yerg, A. 4.24.4 data summer admits par "(with the caducous Hermes) brings and takes away sleep"; Ov. Fast 6.385 sum ducibus somesum dedurat labor "Now toil had given sleep to the leaders"; Ov. Am. 1.13.4 Alpure, ques somesui minera damari amanto //amant' Sec bow many sleeps the Moon gave to the teloved youth"

[&]quot;Tib 1.2.79-80 Nam neput turn plumat net struggala pacta suparem / Nex sonitus plandate duterre postst aquae
"For netther down nor an embroudered corveit-to or the peaceful sound of water can bring steep", Ov. Met
2735-6 at tress in deerin, qua sonnes dute et aries, / vigas na "so that in his right hand the wand with which
he (Mercury) brings and wards off sleep be polished."

[&]quot;I say "virtually" because the form soproi is found in a fragment that is sometimes attributed to Ennius. See below.

¹² Exclude forms of conspin to which I return below. Of course, the dividing-line of 27 BCB is entirely arbitrary and admittedly choice to make the ratio most smixing, but any other dividing-line would be equally arbitrary and only change the numbers insubstantially. See n. 35 for the figures from Juho-Claudian authors ¹⁰On the date of Valenus Annas see Rich 2005.

⁴⁴ According to the arguments of Burton (2000), the first edition of the first pental of Livy was composed between 33 and 30 BCE.

- Postquam satis tuta circa soptique omnes videbantur... (Liv. 1.58)
 "After everything around was sufficiently secure and all seemed to be asleep..."
- Mansuetum id malum...tum quiesse, peregrino terrore sopitum, videbatur (Liv. 3.16.5)
 - "That mild evil (i.e. disrespect for the authorities) seemed to have gone quiet sleeping in the presence of the foreign danger."
- 4. Before we turn to an explanation of this peculiar distribution, let us examine the one apparently Old Latin and finite form of the verb. The Ars Grammatica attributed to the 44th-century-CE grammarian Charisius contains a two-line quotation from a Roman tragedy, evidently a Medea play, which the author cites twice to illustrate the rhetorical feature he calls first paralipsis and then negando. Below is the text of the two passages quoted from Barwick's (1964) edition (p. 372 Barwick, 284 K; p. 374 Barwick, 286 K, Vahlen 274–75, Schauer 2012:285–6, F Adesp. 136):
 - (6) Per paralipsim, [in quo] cum volumus negantes aliquid indicare, tam quam

non com[memo]ro quod draconis saevi sopivi imperum non quod domui vim taurorum et segetis armatae manus!

"Through paralipsis, in which when we wish to indicate something, though denying (that we are doing so), e.g.

I don't mention that I put to sleep the attack of the fierce dragon, not that I conquered the force of bulls and the bands of the armed crop."

 (7) Negando, cum quid negantes volumus inducere atque improperantes beneficia, quae audiens cognoscat

> non (com) memoro quod [dra]conis saevi sopivi impetum, non quod domui vim taurorum et segetis armatae manus.¹⁶

"By negation, when we want to introduce something while denying that we are doing so and blaming (?)¹⁷ the benefits so that the hearer may know. I don't mention (etc.)²⁰

Medea was adapted many times in the history of Latin literature, not only by Emius, but also by Accius, Ovid, Seneca (whose play is extant), Curiatius Matermus, and perhaps Lucan." The trochaic septemarii are consistent with the practice of any of the early Republican tragedians, but not with the practice of Seneca, who rarely uses the meter and always with trochaic feet in the test, and, and she feet. "We are not well informed about the meters of Augustan tragedy, which has been almost entirely lost, but it is probable that the shift to stricter iambo-trochaic meters was accomplished in this time period." The one surviving iambic line of Ovid's Medea conforms to the

[&]quot;Barwick's apparatus quod latrom statui oppressi et dom.. (domus n) ista virorii et segetis armata manus N

¹⁶ Barwick's apparatus, sopivit N domavit viros et N.

[&]quot;The meaning of the sentence from instroperants to consisted is quite unclear

Granting for the sake of argument that the very corrupt text has been correctly restored, we would appear to have two lines from a speech of Mcdea's recounting the notable services she has rendered to Jason. Charisius does not attribute this quotation to any author, but many have seen a line from Ennius' Mcdea Exul. There are, however, two features that are rather surprising in this passage for an archaic Latin author. As noted by the TLLs.v. commensor, the simplex memor and the compound commensor bave a very notable distribution. Bascally, archaic and archairing authors prefer the simplex and authors striving for urbanius favor the compound. Thus Ciccro uses commensor as times but memoro only 4 times. Sallust, on the other hand, uses memoro 18 times and commensor on the all, unless the passage in question is included. Thus at a minimum we can say that commensor is not a typically Ennian word choice. Second, there is the oddity of the finite perfect of spore, which is otherwise unparalleled in Old Latin. The perfect stem of slows shows up first in Livy® and Ovid 200.

[&]quot;Locwenstein Drablan (1937:81) also notes that the use of quod plus an indicative after commentors is unparalleled in the Old Lain period. Aside from this passage, forms of commentor occur in times in Old Lain (1,ex Plaunis, x Pacunis, x Afranus, x Facreeo, The possible complements are Phy, indirect questions, and ace, plus inf. The next example of a quad clause with an indicative occurs in a letter of Marcus Aurelius to Promo p. 60: the prime mountements quad a fulnamum terms. . it enough or "Phould I recount that first. . .that you tried to go to our Julian!" This point, however, does not carry much weight. The use of quad plus the indicative in the rhecorcal figure variously called paralipse, as in Charistus, or amplifurate, as in foliate Rufinsanus, scents to have been a normal usage at least by the time of Terestic Glum 204-51; min ut intram, quad a amortion difficultiment of /aristionism . . .tim configurate modifies "Not to speak" of the fact that I brought about that low affair which was both very hard only very due to him without any trouble". Rufinsanus quotes Lacit. 124-28 as in example, non tange, guod awarus home cst, quodque improbus, mater "I don't couch the fact that he is a greed with an all founds that he is weded."

^{**}Liv. 24.46.5 imber. lentror. accidens auribus magnam partem hominium sopius "The rain falling more gently on the ears put to sleep most of the men."

³⁰Ov Mrs. 7.213 (ca. 8 BCE): custoderique rudem sommi sopistis "And you put to sleep the guardian ignorant of sleep."

[&]quot;See Arcellaschi 1990 and Cowan 2010. The Vita Luciani of Vacca mentions a tragoculus Mulea inperfera. Pacurius wrote a sequel to the Medea story, Mului, and Accius wrote a kind of prequel. Neither play is likely to have included a scene corresponding so closely to Europides' Mulea.

²⁰On the assumption that Senecan practice reflects that of the lost Augustan tragedy, we may suspect that the septenanus was not used frequently by Ovid. Seneca has this meter only in three short passages in his surviving tragedies (Mad. 740–11, Plased. 1201–12, Odd. 222–12)

²³ See Soubiran 1988; 5

stricter standards followed by Seneca. Thus it is unlikely that this line can be attributed to Ovid. On the other hand, it is probable that these lines were known to Ovid. There are two other passages in Latin literature where Medea's pacification of the dragon is described with the verb söpire. These are Ov. Met. 7.149 pervigilem superest berbis sopire drazonem "The remaining task is to put to sleep the wakeful dragon with herbis and the perhaps pseudo-Ovidian Ep. 12.171 quae me non posum, potui sopire drazonem "I who cannot put myself to sleep, though I was able to put to sleep the dragon." Ovid also attests the collocation sogies clipatas 'the shield-bearing crop' (Met. 3.106) in reference to another set of earth-born warriors, those sown by Cadmus from the teeth of a different dragon, a phrase closely related to the santis armatase of our passage. "I

This examination leaves us with no satisfactory conclusion. The fragment is unlikely to come from any of the known Matka's, but it is likely to be a piece of Republican Latin. If this is so, the sopioi of these lines is among the earliest examples of a finite verbal form. We will return to this fact below.

5. This great predominance of the "perfect passive participle" continues into the early Imperial period, although the ratios are not quite as overwhelming.³⁰ Why should this be? Perhaps it is somehow a fact that for unknown reasons causatives of 'sleep' predominantly occur in the passive participle. We can test this hypothesis by examining the ostensibly cognare verb mapaignar in Vedic. In the Rig Vada the causative stem madains occur so times:

- (8) a. ní jánán svápavamasi
 - "We make the peoples sleep." (7.55.7d)
 - b. tāh sárvāh svāpayamasi
 - "All these we make sleep." (7.55.8d)
 - c. ní svápayá mithüdyšá
 - "Put to sleep the two of opposite appearance?" (1.29.3a)

- d. trám ní dásyum cúmurim dhúnum ca / ásvāpayo dabhītaye suhántu "You put to sleep the Dasyu Cumuri and Dhuni, easy to smash for Dabhīti". (7,10,4cd)²⁷
- e. áspāpavan niaútah
 - "He put the challengers to sleep." (9.97.54c)
- f. áspapayat dabhítaye sahásrā trimsatám hatáih
 - "(Indra) put to sleep thirry thousand (Dāsas) with his blows (4.30.21ab)." (translations from Jamison and Brereton 2014)

There are no instances of the participle. ³⁸ Of course the absence of the participle of the causative is not surprising since, as Stephanie Jamison has shown (1983:214), the association of the -itia-participle with the causative is an innovation and only in status nascendi in Vedic, but the nearly synonymous supta-'sleeping' first appears only in the Atharras Veda. Thus there is nothing about the situation of sleeping that should necessarily prefer the past participle. ³⁹

6. If there is no semantic justification, then the predominance of soptius must be morphological. When we examine the passages with soptius in this light, we note that soptius is almost always used as an attributive adjective. There are only two examples of soptius combined with the verb ass in what should ostensibly be the perfect passive. If soptius are were a verb form we would expect it to mean 'has been put to sleep', i.e. 'died', but this is not what the passages mean. Lucr. 3,1038, (sh) above, academ alisi.

"There Gundel points out to me that the eather different generic and textual structure of the Ray Vada makes this point ests than compelling and suggestes examining the Land infiltrations of the antionyms meaning to result in the structure of the Vada structure of

"Andrew Garrer suggests the following scenario to me. If spiring, originally the past passive participle of the causative when, has developed the meaning "slaep", then the numerical predominance of this form can be explained by the fact that saying someone is alieep is in some way a more basic and therefore more frequently occurring description of reality than describing a situation where someone or something causes another person to go to sleep. This seems undenable, but given the fact that there are criminatances in Old Latin where the situation "X maken Y sleep", in both atypical and prototypical senses, is described (see 5 above), the failure of spiring to appear in these contexts is significant. One could argue that the verb was virtually morbund or epilaced by the compound datapper, only to be revivified subsequently, but this secount is more comoliscated than the one arroad for her one

³⁴ See Knox 1986

^{**}Chansus does quote Ond on occasion, usually with attribution, but not at p. 188 Barvick where impairs for imprint in Affair 3 pix quitored as an example of immateria (latense pix literia immateria). Explore attributions are, with the exception of the first quiestano from Terence, not given throughout the administ diamons except for the one of Vergils Edgings 1 to green visibility attribution are unknown. For the fragments and testimonis for Ond's Medius see Schauer 2012;150–7. One line is a nambus extrama and the other is an anapsize retaining.

[&]quot;For authors of the fulso-Claudian period there are at examples of apptars vs. 10 examples for all other forms. The lost for forms of apptars are Verg. A. 16.0, 7.543, 8.440, 8.82, 10.0462; Lw. 7.916, 7.541, 8.26, 9.37 9, 21.911, 23.64 2, 25.581, 2.81 6.6, 29.618, 31.255, 31.4411, 33.488, 33.27.6, 30.888, 30.64.10, 4.07.64, 4.016, 4.45.25, 4.816, 4.819, V. 7.819,

²⁷Cf. the alternative formulation of the same event at RV 2.15.9a srapenabhyúpyā cúmurim dhúnim ca "Having scattered Cumuri and Dinens with sleep..."

[&]quot;OAT LINC, 3,004—5 me quadem at es lete sopines, ne erse new/ quod superest custent privatar' deloribus negrus, the predicate of es to privatus Cf. W. E. Leonard's translation (1921): "O even as here thou art, aslumber in death, so shalt thou slumber down the rest of time, released from every harrying pang."

soptis' quiete et describes how Homer sleeps in quiet like all the other lesser poets.
Soptis' quiete et means not "he was put to sleep in rest," but "he is asleep in rest."

On the other hand, in Livy 1.41.5, (sm) above, Tanaquil reports falsely that Tarquin had been stunned by a sudden blow (soptium fuisse regens subito icts standing for direct soptius fuerant) but that the wound was not serious and that he had now come to (sind at verdiss). The most natural interpretation for this passage is that soptium fuisse refers to a state which had been entered into earlier (soptium) but had subsequently ended (fuisse). This suggests that in Livy's usage the form soptius had at least some of the aspectual features of a verbal form.

- 7. The pattern displayed by shiftus is not unparalleled in I atin. For example, the early predominance of shiftus is paralleled by the form operatus 'busy', often identified as the perfect passive participle of the verb operatus 'busy', often identified as the perfect passive participle of the verb operatus 'busy', or often identified as a rangued clearly by Postgate (1899), is denominative to opsis or opera 'work' and it is only with Pliny the Elder that finite forms have been backformed from the reinterpreted denominal adjective. Another well-known case is arms 'to fit with arms'. Here the participle armatus is well-attested in Old I atin (Pl. Bas. 942, Cat. bits. 93)," but unambiguous verbal forms do not appear until a generation later in the works of Cassius Hermina.¹³ This suggests a possible explanation for the peculiar distributional facts about this 'verb'. Sophius is not in fact a passive participle to an old and interesting Narten causstive, but instead is a possessive denominal adjective to an equally interesting but unattested i-stem noun *systps-. The perfect active form sophis, found in the fragment of Republican tragedy discussed above, was the natural first step after the reanalysis of spirus as perfect, passive participle.
- 8. Before turning to the further derivational history of sopitus we must discuss the facts about consopis. The profile of this verb is quite distinct from sopitus. It has clear present-stem forms already in the Republican period (consopis Lucr. 6.792, consopiri Cic. Thiss. 1.117). When consopitus is combined with est the meaning is clearly that of the perfect passive (Cic. Dis. 2.185):
 - (9) Alexander adsidens somno est consopitus "Alexander while seated was overcome with sleep."

Consopitus is combined with a personal agent (Cic. Tusc. 1.92):

14Though not quite as well attested as is usually thought. For the example quoted by the OLD from Enn. 1475 see \$4 above

"In fact, the case of the other verb 'to cause to sleep', sppini sppinine, may be another instance of a renterpreted denominal adjective. Here two the "participle" is the predominant form, occurring twice in Vergil (4, 5.84, 6.39) and once to Oxid (4m. 1.6 at) before the first clearly verbal form appears in Celtus 2.2.31 (approxive) and Serbonusi Largus 180.85 (sppinis). Up to Apulerus sppinino is atteated 8 times vs. 6 times for all other forms of the verb For some further examples of verbs backformed from denominal adjectives in *4e*, see Leumani 1997-763 and Paragil 1992.111-1. (10) a qua (Luna) consopitus (Endymion) putatur"By whom he is thought to have been put to sleep"

and consopit has causative meaning in Lucr. 6.792:

ii) nocturnumque recens extinctum lumen ubi acri nidore offendit nares, consopit ibidem concidere et spumas qui morbo muttere suevit. (6.791-3) "A recently extinguished night light when it strikes the nostrils with its sharp smell immediately renders unconscious the one who was accustomed to fall ill and foam."

(12) Quid melius quam in mediis vitae laboribus obdormiscere et ita coniventem somno consopiri sempiterno?
"What could be better than to go to sleep in the midst of life's labors and so

closing one's eyes sleep in eternal slumber?"

and finally a causative active was created which we see in Lucretius' omsopit. The creation of a causative active 'to make sleep' from a middle 'to be asleep' can be paralleled by the history of the Grock verb κουμάσμαι ~ κουμάσω. This verb is attested with predominantly middle and passive endings in Homer in the meaning 'fall asleep, lie down' (36 times by my count). Active forms with the meaning 'full, put to sleep' are limited to 7 instances of the s-aorist (II. 12.281, 14.236, 16.534; Od. 3.397, 4.336, 12.327, 17.127). The first active form outside of the s-aorist appears in Asschylus Sept. 107 (βλάδκα m) κουμάσ Γυπον του truiting the evclids to sleep').

9. If the patterns of attestation support a denominal origin for sipitus, what derivational history must we assume to account for this form? A denominal adjective sipitus points to a nominal base "sipi- < "suppi- The presuffixal lengthening of -i-, no doubt</p>

[&]quot;See Haverling 2009, 317-8

of denstrumental origin, is expected, cf. crinitus 'long-haired' from crinis' hair'. A noun 'suppi- 'deep sleep, unconsciousness' could be explained as a substantivizing i-stem of the type ravis 'hoarseness' (cf. ravus 'hoarse') from 'suppo- 'sleepy', itself a pradhi-derivative of an o-stem 'suppo- 'sleep' probably continued in Vedic anusyspam 'sleepily' (RV 8,97.3):

(13) yá indra sásti avrató anusvápam ádevayuh

svaíh sá évair mumurat pósyam rayim sanutár dhebi tám tátab

"He who slumbers sleepily not following the commandments, not following the gods, o Indra, through his own activities he will hinder his wealth from prospering. Put him far away from it." (translation from Jamison and Brereton 2014)

xo. Unfortunately the intermediate step "suppor "sleepty" cannot be directly supported, but we can point to evidence for a parallel derivational process within Latin. The verb militri (Pl+) 'to strive, to build up' is undoubtedly related to the i-stem noun militri (Pl+) 'to strive, to build up' is undoubtedly related to the i-stem noun militri a large mass, a struggle. The meaning of the simplex verb militri and the meaning of its compounds are divergent in interesting ways. The simplex occurs three times in Plautus (Bac. +Gi, Cur. 188, Par. 78):

- (14) Insanum magnum molior negotium
 metuoque ut hodie possiem emolirier
 "Tm working on a crazy big business but I'm afraid I won't be able to accomolish it todav."
- (15) Viden ut misere moliuntur? nequeunt complecti satis "Do you see how they're struggling wretchedly? They can't get enough of hugging."
- (16) Quia ei fidem non habui argenti, eo mihi eas machinas molitust "Since I didn't trust him about the money, he cooked up this plot against me."

and once each in Caecilius (192),

(17) Ita quod laetitia me mobilitat, maeror molitur metu "Just as happiness gets me going, so sadness works against me with fear."

Aemilius Paulus (orat. 2).

(18) Ne quid mali fortuna moliretur... "Lest fate contrive some evil..." Terence (Hec. 239),

(19) Et mulierum nosti moras/dum moliuntur, dum conantur, annus est "You know how women delay. While they're striving and trying, it's a year."

and Lucilius (294):

(20) Muginamur, molimur, subducimur. "We mutter, we strive, we are diverted."

In Old Latin the simplex verb, with the exception of the Caecilius passage, means to labor to bring something about, to struggle? ³⁰ On the other hand, the equally old and frequent compounds have a more concrete meaning. Demaliri/almalire means to pull down (a building), to demolish and to throw off (a charge); ³⁰ amaliri means to remove obstacles or internatively or reflexively to go away, i.e. tremove oncestle? ³⁷ These facts can be explauned by assuming that the simplex and the compound verbs are based on two different senses of the noun malles. The compounds are based upon the sense through mass' seen for example in these lines of Accius (true, 39), 40:31:

(21) tanta moles labitur fremibunda ex alto ingenti sonitu et spiritu "So great a mass slides roaring from the deep with giant sound and breath."

(22) Molem ex profundo saxeam ad caelum erigit "(Triton) raises up a rocky mass from the deep to heaven."

On the other hand the simplex is derived from môlés in the sense of 'struggle, contrivance' also found in Accius (1719, 198):

(23) Maior mihi moles maius miscendumst malum, qui illius acerbum cor contundam et comprimam "I must mix up a greater contrivance, a greater evil, with which to suppress and smash his bitter heart."

This twofold matching confirms what has long been almost universally agreed on:

¹⁴ For the type see Nussbaum 1996

³⁵The verb embliri 'to carry through' occurs just once in Old Latin (Pl. Bae. 762) and is obviously a perfective to möliri as the sentence quoted in (14) shows.

^{*}Forms of demoline/demoline occur once in Naevius, once in Plautus, and once in Cassius Hemina.

Admolin is attested twice in Plautus (At. 466, Rud, 500)

¹The verb dimitirs is found six times in Plautus, two times in Pacuvius, once in Accius, and once in Terence (An. 707).

mölirī is a denominative. to the i-stem moli-. This is not immediately obvious on general or philological grounds which of the two basic meanings 'weight' or 'struggle' is older. Ernout and Meillet favor a development from 'chose écrasante' to 'difficulté écrasante', but this may simply be due to a presumption in favor of semantic change from concrete to abstract. Omparative evidence settles the case.

x1. The Greck form μώλος, predominantly in the line-final formula μάλων "λαγως 'turmoil of war' (II. 2.4-01, 7.147, 16.245, 18.346),* but also three times outside the formula (II. 17.397, 18.288, Od. 18.233), appears to mean simply 'struggle', referring one time to the struggle between the disguised Odysecus and Irus (Od. 18.233). The Law Code of Gorryn attests a denominative verb (ἀνφι-)μάλω (< "ποδέα) 'contend legally, bring a case' and the compound ἀντίμαλος 'legal opponent' (6.23). Hesychius offers μ(ω)λα' μάχεται 'fights', ἀντιμωλία δική εἰς ἥν οἱ ἀντίδικοι παραφήγενατα 'tal aw case at which the opponents are present', and μωλήφεναι 'μαχήφεναι 'will fight'. The Greck forms clearly support the antiquity of the meaning 'struggle' and nor 'weight' and nor 'weight' and nor 'weight'.</p>

x2. Many scholars have seen in the Greek and Latin forms just discussed extensions of the root "meb₁· (LIV² 425) 'Mühe bereiten, zur Last fallen', continued in OHG muoen 'to make tired', Go. afmasuib Ga. 6.9 'growing weary', etc. 43' There can be no serious semantic argument against this connection, but phonology excludes it. Latin moletsts, with a short o in the first syllable, cannot be explained from any ablaut grade of a root "meb₂». Nor is there any phonological process to shorten a long 6.43' The best explanation so far offered—that "moletsus was remade to moletsus by contamination with modestus—is a stretch, since the association between moletsus 'estrained, moderate' and a putative "moletsus and molets" Greek too has evidence pointing to a short vowel in the Hesychian gloss

13. If this is the root shape, then the long vowel can only be the result of morphological lengthening, i.e. ηναθών. The most economic account would appear to be as follows: *malos* toil '(Gle, μόλος) made a vyddhied genitival adjective *malos* tof roil' and this was then substantivized in Greek by zero-derivation (μόλλος) and in Latin by i-stem nominalization (mölös). The path from *malos to *mölos to *mölos is identical to that which I have hyoothesseed lies behind sõpsus.

Abbreviations

Ernout-Meillet = Ernout, Alfred, and Antoine Meillet. 1985. Dictionnaire étymologique de la lanque latine: Histoire des mots. 4th ed. Paris: Klincksieck.

LIV^a = Kümmel, Martin, and Helmur Rix (eds.). 2001. Lexikon der indogermanischen Verben: Die Wurzeln und ihre Primarstammbildungen. and ed. Wiesbaden: Reichert.

OLD = Glare, P. G. W. (ed.). 1982. Oxford Latin Dictionary. Oxford: Oxford University Press.

TLL = Thesaurus Linguae Latinae. Stuttgart and Leipzig (1900–1999), Munich and Leipzig (2000–).

References

Arcellaschi, André. 1990. Médée dans le théâtre latin d'Ennius à Sénèque. Rome: École Française de Rome.

³⁹But midiar is the sole denominative to a noun of this type. The form anpin to fence', which might appear to be a denominative to anpin 'fence', is probably a primary verb, as is suggested by the perfect system sagus, anginu. The one notable exception to this quasi-unanimity is Meiller (Ernour-Meiller p. 410), who suggests that midiar's was deverbal and a parallel to signire.

³⁷I do not have the space to examine the -8s, -8i type here. Addle is most hkely an instance of a reinterpreted. Jetem plural (Wests 2011 44). Note how GR judkov Apong CR _240+0; corresponds to or was the model for Lat mollis Marriu (Gell 13 23.2), MOLINES MARTIS (Fernale Camanium, CLL 1, p. 229) the plural name for the divinities hypotassizating the turnoits of war. For another view on mollis Marriu see Rocca forthcoming.

^{***}Molecusi, -a, -um (PL+) 'annoying' is consistent with either original meaning. Cf. ModE bundenouse
← burden and toisome ← nul. Alan Nussbaum suggests to me that remellijk (PL+) 'cause of delay' is to be
derived from the same rote. but this too is consistent with either sense.

[&]quot;Cf. Arch. fr. 3. 1. 2 μώλος "λρης. Forms of μώλος naturally also occur in the immators of Homer On this formula see most recently Barnes 2009;"-0, who favors a connection of μώλος with the root "mulls," rgind'. Such a connection owald be consistent with my proposal, but it does not seem to be unavoidable

⁺i'TB māsk(ā)- 'be difficult' and TB amaskas 'with difficulty', māskse 'difficulty' probably also belong here.
See Peyrot 2011. The connection of Ru māpu māput' 'tire out' (tr.) is uncertain.

^{*}See Schaffner 2005;358, who opts for etymological separation of molestus and molds. Dybo's Law is unhibly in this case because moles- on any analysis of its prehistory probably continues a root-accented form.
*The one instance of a close collocation of modelines and modelines that I have been able to find appears

μάλος πόνος, μόχει, φίωνημα 'toil, fight, snorting'. "The adverb μάλις 'hardly' (Aesch. +) also confirms the original short vowel in the root. "Thus the root in question must be "(H)mel(H).

to be accidental (Cic. Att. 9.19.1): at quae etiam cam a bonu viria, cam susto in bello, cum modeste finnt, samen span per is moletae nune... "Those things which even when they are done by good men, in a just war, with moderation are in themselves troublesome..." Remeligis, where the e of the second syllable must be original by the so-called alator rule (Weiss 2011:118). If correctly connected, confirms this picture.

⁶⁹Alexander Lubotsky reminds me that μάλως could formally continue *μιδιο- with Beekes' Law, but an accented zero-grade in a thematic verbal abstract is unexpected.

[&]quot;The adverb µµµ so normally treated with some suspicion since it is post-Homerc and appears to be a perfect synonym for the Homerc and alters form µµµ sor. The form µµµ is in first attested in Acachylus and appears to be predominantly Artic. If we can alter short µµµ is in the size of the Acachylus and appears to be predominantly Artic. If we can be fore predominantly Artic. If we can be fore predominantly after the collection of the clotton—Homer can fill records use ever use µµµ (x µµµµ x µ in Homer, to x n il Herodotsus | Therodotsus | Therodotsus | Y in Homer, to x n il Herodotsus | Y is in Homer, to x n il Herodotsus | Y is in Homer, to x n il Herodotsus | Y is in Homer, to x n il Herodotsus | Y is in Homer, to x n il Herodotsus | Y is in Homer, to x n il Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Homer, to x n in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus | Y is in Herodotsus |

- Bammesberger, Alfred. 1980. "Zur Bildungsweise des indogermanischen Kausativs."

 Zeitschrift für vergleichende Sprachförschung 94:4-9.
- Barnes, Timothy. 2009. "Homeric μῶλος "λρηος, Hittite mallai barrni." In Proceedings of the 20th Annual UCLA Indo-European Conference, cd. Stephanie W. Jamison, H. Craig Melchert, and Brent Vine, 1–17. Bremen: Hempen.
- Barwick, Carolus (ed.). 1964. Flavi Sasipatri Charisii artis grammaticae libri V. Corrected ed., with addenda and corrigenda by F. Kühnert. Leipzig: Teubner.
- Burton, Peter. 2000. "The last Republican historian: A new date for the composition of Livy's first pentad." *Historia* 49:420-46.
- Cowan, Robert. 2010. "A stranger in a strange land: Medea in Republican Roman tragedy." In Unbinding Medea: Interdisciplinary Approaches to a Classical Myth, ed. H. Bartel and A. Simon, 39–52. London: Legenda.
- Haverling, Gerd. 2009. "Actionality, tense, and viewpoint." In New Perspectives on Historical Latin Syntax. Vol. 2, Constituent Syntax: Adverbial Phrases, Adverbs, Mood, Tense, ed. Pierluigi Cuzzolin and Phihp Baldi, 277–23. Berlin: Mouton de Gruyer.
- Jamison, Stephanie W. 1983. "Sleep' in Vedic and Indo-European." Zeitschrift für vergleichende Sprachforschung 96:6-16.
- 1983, Function and Form in the -áya-formations of the Rig Veda and Atharva Veda. Göttingen: Vandenhoeck & Ruprecht,
- Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigreda: The Earliest Religious Poetry of India. Oxford: Oxford University Press.
- Klingenschmitt, Gert. 1978. "Zum Ablaut des indogermanischen Kausativs." Zeitschrift für vergleichende Sprachförschung 92:1-13.
- Knox, Peter E. 1986. "Ovid's Medea and the authenticity of Heroides 12." Harvard Studies in Classical Philology 90:207-23.
- Kroonen, Guus. 2013. Etymological Dictionary of Proto-Germanic. Leiden: Brill.
- Leonard, William Ellery. 1921. Lucretrus: Of the Nature of Things (A Metrical Translation). New York: Dutton.
- Leumann, Manu 1977. Lateinische Grammatik. Munich: Beck.
- Loewenstein Drabkin, Norma. 1937. The Medea Exul of Ennius. Geneva, NY: Humphrey.
- Norcen, Adolf. 1923. Altsslandssche und altnorwegische Grammatik (Laut- und Flexionslehre) unter Berucksichtigung des Urnordsschen. 4th ed. Halle: Niemeyer.
- Nussbaum, Alan. 1996. "Latin actium, aurītus, actitus, avītus: Four of a kind?" Paper presented at the Fifteenth East Coast Indo-European Conference, Yale University. Pagas | Oswald 1996. "Perspektivan der Interiorische Worfsborechen?" In Latin und
- Panagl, Oswald. 1992. "Perspektiven der lateinischen Wortforschung." In Latein und Indogermanisch, ed. Oswald Panagl and Thomas Krisch, 327–37. Innsbruck: Institut für Sprachwassenschaft der Universitat Innsbruck.
- Peyrot, Michael. 2011. "Tocharian A máska- 'be difficult'." Tocharian and Indo-European Studies 12: 145-54.

- Postgate, J. P. 1899. "Operatus and operari." Journal of Philology 26:314 20.
- Rich, John. 2005. "Valerius Antias and the construction of the Roman past." Bulletin of the Institute of Classical Studies 48:137–61.
- Rocca, Giovanna. Forthcoming. "Divinità sabine?". In Atts del III Comegno Internazionale dell'Istituto di Ricerche e Documentazione sugli Antichi Umbri: Perugia-Gubbio 21–24 settembre 2011.
- Schaffner, Stefan. 2005, Untersuchungen zu ausgewahlten Problemen der nominalen Morphologie und der Etymologie der altmologermanischen Sprachen. Habilitation, University of Regensburg.
- Schauer, Markus, ed. 2012. Tragicorum Romanorum fragmenta. Vol. 1, Livius Andronicus. Nacvius. Tragici minores. Fragmenta adespota. G\u00f3ttingen: Vandenhoeck & Ruprecht.
- Soubiran, Jean. 1988. Essai sur la versification dramatique des Romains: Sénaire tambique et septénaire trochaique. Paris: Centre National de la Recherche Scientifique.
- Vine, Brent. 2011. "Initial *mo- in Latin and Italic." Munchener Studien zur Sprachwissenschaft 65:261–85.
- 2012. "PIE mobile accent in Italic: Further evidence." In The Sound of Indo-European: Phonetics, Phonemics and Morphophonemics, ed. Benedicte Nielsen Whitehead, Thomas Olander, Birgit Anette Olsen, and Jens Elmegård Rasmussen, 545– 75. Copenhagen: Museum Tusculanum.
- Waginingen, Iacobus Van. 1918. "Hodie." Mnemosyne 46:161-4.
- Walde, Alois. 1906. Lateinisches etymologisches Wörterbuch. Heidelberg: Winter.
- Weiss, Michael. 2011. Outline of the Historical and Comparative Grammar of Latin. 2nd corrected printing. Ann Arbor: Beech Stave.

So What Is It to Be?

MARTIN WEST!

I Introduction

My thesis is not a new one. But perhaps my selection of evidence and presentation of the argument will refresh it and succeed in holding for a few minutes the interest of the warm-hearted recipient of this volume, and a few of its colder-hearted readers.

What we generally refer to as the verb 'to be', reconstructed as *hes-, is found everywhere in the Indo-European language family. But what does it mean, to 'be'? Can we reach a clearer idea of the word's original sense and application?

In the historical IE languages it is convenient to distinguish two basic uses: as a copula and in an absolute, existential sense. By a copula we mean (in this context) a verbal form serving to link a subject to a non-verbal predicate.

Why was such a link sought, seeing that many IE languages, including all the ancient ones, are happy with purely non-verbal precidentes, or actually prefer them to using the copular The nominal construction was satisfactory so long as there was no need to mark the predicate for tense or mood. But when that need arose, it was most easily met by using a verb form. Even when there was no such need, there was always potential pressure to conform to the dominant syntactic pattern of subject + verbal predicate, and a semantically pale verbal copula offered the means to do so.!

It is generally agreed that the copulative use of *h,es- is likely to be secondary. A similar development can be observed with other verbs in various languages (εf. Delbrück 1900:12). A verb with a rather broad meaning is often combined with a nominative predicate, as in English expressions like I stand corrected, you are running seared, she grows lordier, and we are sitting pertry. It may then happen that the verb weakens to become a mere copula employable under certain conditions. In Greek, for example, γίγγομαι, πέλω, ἐπάσχω, καρέω, τυγχώνω, and ψώω all exhibit this trend. In Spanish etar has displaced ser as the copula used for a temporary as opposed to a permanent condition.

For all these verbs we can define a primary sense: γίγνομωι 'be born', estar 'stand', and so on. So if *h,es- belongs in the same category, what was its primary sense?

In the later nineteenth century the standard view, following Curtus (1866.337), was that it was 'breathe, be alive'. So Grassmann (1873:144) on 48- (*Die ursprüngliche Bedeutung 'sich regen, leben' tritt nur in Ableitungen [ásu, ásura, ásŋ] hervor. Aus ihr hat sich der Begriff des Seins entwickelt") and similarly Ebeling (1885:1.359), who gives 'vivo et vigeo' as the first meaning of eigi.

After Curtius' argument crumbled, 'exist' was promoted to the status of primary or at any rate oldest determinable sense. So Delbruck (1900:13), "Die Urbedeutung dieses Verbuns ist unbekann, die älteste belegbare ist 'existieren'"; Brugmann (1904: 627), who repeats Delbrück's formulation almost verbatim; Meillet (1937:359), "le verbe "8x, dont la valeur propre est d'affirmer l'existence"; Benveniste (1960:114), "le sens en est 'avoir existence, se trouver en réalité""; and Watkins (1967:191), 'really, actually be, exist'.

But what then is the relationship between the existential sense and the copulative function? According to Brugmann, "dile erde is eine hugel = die erde existier ali hugel." But does it exist natural to say "the President of the United States exists Barack Obama"? And how likely does it exist that the Proto-Indo-Europeans felt any need for a word meaning 'exist', seeing that philosophical questions about being and nonbeing arose, so far as we can see, only much later?

Two other views of the primary sense of *h.e-enjoyed currency in the last century. They may be designated the veridical and the adessive. According to the first, the basic meaning was 'be really so, be a fact'. I have just quoted Benveniste's formulation 'avoir existence, se trouver en réalite'. He continues, "et certe 'existence', certe 'réalite' se définissent comme ce qui est authentique, consistant, vrai." In support of this interpretation he refers to the evidently ancient use of the participle and derived forms to mean 'true, genuine'. This is also the position embraced by Charles H. Kahn in a massive study of the Greek verb (Kahn 1973:297-370).

According to the adcessive view, the basic meaning was 'be there, be available.' This already appears, awkwardly conflated with the old Curtius erymology, in Kuhner and Gerth 1808:1.3—eigii, "das eigentlich atme, lebe, bin vorhanden bedeuter!"—and then more unequivocally in Delbrück 1900:11: "da die Kopula urspringlich ein Verbum mir materiellem Bedeutungsinhalt war, also z. B. ar bedeutete: 'ist vorhanden!."

On the development of the existential and copulative uses from the postulated primary sense vorhanden sein, sich befinden', Klowski (1975:74s) is a little more explucit. "Aus dieser lokativen Bedeutung hat sich einenseits durch Betonung der Verbbedeutung in bestimmten Zusammenhängen die existentielle Bedeutung entweckelt und

Cf. Meiller 1937:337: the verb 'to be' ('ètre') "ne figurant en indo-européen que par suite de l'importance qu'y a prise le type verbal d'une manière générale, importance qui a déterminé l'emploi obligatoire d'une forme verbale dans certains cas."

³ Hart alant: 'real, true' (Pulvel 1984 280); GR. του έδοτα λόγου, τοῦ ἄντι, etc. (LSJ a.v. εἰμί A III), PIE '*sgr.yώ- > Skt. καβώ, Αν. δαιδίκα-. ΟΡ δαίβνα-, Goth. καβμί (Rm.), PIE '*sdnt a- > ON zannr, OHG sand, OE x80, On the development to 'guility' ci. Washns 1907.

andererseits in Zusammenhangen mit Prädikatsnomina die statische, sonst aber bedeutungslose copula. For the derivation of existential from locative sentences (there is, H y a, e^2 , etc.), Bennekom (1984:261) refers to observations by linguisticians, and to the Platonic and Aristotelian axiom that whatever exists must have a location.³

Martínez Marzoa (1974) offers a slight modification of the adessive interpretation, according to which 'be present' carries the connotation of 'be manifest, appear', functioning either as copula or as an absolute form.⁴

In what follows I shall collect evidence from the ancient languages to show that in all of them continuators of *h,es were widely used in the sense of 'be there, be present, be available', and I shall argue for this as the verb's oldest recoverable meaning.

2 Hittite

Such a sense of Hitt. eb., beside the simple 'be', is registered explicitly in the dictionaries. Friedrich (1952–66:42) gives 'sein, vorhanden sein; sich befinden'; Tischler (2008:36), ditto; Únal (2007:115), 'to be, to exist, stay, live, be present'; and Kloekhorst (2008:320), 'to be (copula); to be present'. In Puhvel 1984:285–9 I find the following relevant examples:

KBo 5.8 ii 24-5

NU.GAL kuiški ēšta "There was no one there."

KUB 19.37 iii 44-6

knei apan eiir, n-an arḥa dalaḥḥun, n-at eiir-pat "those who were (left) behind, I left them alone, and they were (remaining) there." The phrase apan eican also mean 'be behind, back up, support', where ei- must carry the connotation of being there.

KBo 12.126 i 27

nu: ši athBAN-ŠU čissi "he has his bow," literally "his bow is there for him."
(Cf. below on Vedic.)

In the palace building ritual in KUB 29.1 (García Trabazo 2002:477-504) i 50-ii 4 we find:

191. 73. 5ab, Arus Ph. 208a29 On the adessive use cf. also Kahn 1966.257–8, 1973-375–85, and 2004/399-400, as well as Ruight 1979:35–65, who quotes a number of perment Greek examples. "Martinez Marzoa 1974-166." imanifestación, patencia, presencia, diase. This sense vies inherente a la Mān-ma haišus andan parna uezza, nu Halmskuz haran halzāi: "Elju-ta, aruna pizimi. Mān pāši:-ma, nu uliliya tiyešna šunoya, kuyēl ašanzi." Apāšis apa tzzzi: "Sunoyanun-wa, nu-wa Išdustayas Papayai, katereš karuelēi šiūnes kūlēi, haliantei ašanzi."

And when the king comes into his house, the Throne goddess calls an eagle: "Hey! go north for me. When you go, spy out the forest greenery (and see) who are there." He (goes, returns, and) replies, "I have spied it out; Isdustaya and Papaya, the ancient nether divine maidens, are there kneeling."

3 Vedic

In discussing the primitive meaning of the IE verb Delbrück relied entirely on Vedic examples, which he took to support the sense 'exist'. His first passage is RV 8.100.34-c;

prá sú stómam bharata väyajánta Índrāya satyam, yádi satyam ásti. néndra astíri néma u tva áha

He translates: "bringt doch wetteifernd dem Indra ein Loblied dar, ein wahrhaftiges, wenn er in Wahrheit existiert. 'Indra existiert nicht', so sagt mancher.' Geldner (1951) has, "wenn es Wahrheit ist! 'Bs gibt keinen Indra', so sagt manch einer.' Jamison and Brereton (2014) have, "Proffer praise as you all seek the prize—real praise to Indra, if he is the real thing. 'Indra does not exist,' so says many a one.' 'However, the question about Indra is raised in the context of the ritual event, and it can be interpreted as a question about his presence or availability rather than about his absolute existence. Delbrück does not quote the fourth line of the stanza, which goes, há im dadaría, hám abhi ṣtavāma? Nor the next stanza, in which Indra himself refutes the doubter: aydm asmi jaritah, pásya mehá! We may render the passage:

Bring Indra a praise-song eagerly, a true one, if he is truly there.

"Indra is not there," says so-and-so. "Who has seen him? Whom are we to praise?"

"Here I am, singer, look at me!"

In Delbruck's next two examples *dati* is linked with a dative pronoun in the familiar IE construction expressing possession, which we have already seen in one of the Hittute examples. RV 1.32.15:

ásti hí smä mádaya vah

For you have (the wherewithal) to carouse. (I.e. it is there for you, at your disposal.)

So too 8.67, where after 6a-c,

cópula como tal, a la constitución de una relación predicativa, no a la presencia o ausencia de «ñas."

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yád vah śrántaya sunvaté várűtham ásti, yác chardíh, ténà no ádhi vocata What cover you have for the toiling soma-presser, what protection, with that intercede for us.

the pronoun is again to be understood in 7a:

ásti devä amhór urú, ásti rátnam ánagasah There is (in your power), gods, freedom from strait, there is enrichment of the innocent one.

In such cases ásti is equivalent to Lat, praesto est 'is at hand', 'is available'. In translating his next three examples (1.40.8, 4.18.4, 5.31.2) Delbrück himself uses the expression '1st vorhanden'. He continues, "Oft steht ein Wort dabei, welches den Ort des Vorhandenseins angiebt," quoting 6.19.12, 8.75.15, and 5.74.6 as instances.

Grassmann, as I noted earlier, supposed the original meaning of as- to be 'sich regen, leben', while allowing that this does not appear in the actual usage of the verb. When he starts to classify its ostensible meanings, they go "1) sein, da sein, vorhanden sein, existieren . . . 2) bereit, gegenwärtig sein, zur Hand sein . . . 3) an einem Orte sein, sich dort befinden ... "

I submit that we should always be on the lookout for the contingent sense 'be there, be available'. I do not want to deny that the verb may sometimes have a pure existential meaning. I daresay many unimpeachable examples can be produced. One place where one naturally thinks of looking is in the famous cosmogonic hymn, 10.129. It begins:

- ,1 násad äsin nó sád äsit tadánim, násid rájo nó víoma paro yát. kim ávarívah, kúha, kásya sármann? dmbhah kím äsid gáhanam gabhirám?
- .2 ná mytyúr äsid, amýtam ná tárhi, ná rátriya áhna äsit praketá. ánīd avātām svadhāvā tād ēkam: tāsmād dhānvān nā parāh kim canāsa.
- .3 táma äsit támasá gülhám ágre, apraketám salilám sárvam a idám ...
- .1 Neither non-being nor being was there at that time, there was not the air-space, nor the heaven that is beyond (it). What was it moving forward? Where? In whose charge? Was it water there, that deep covert?
- .2 Death was not there, nor deathlessness then: of night and day there was no signpost. It breathed windless, autonomous, that One: other than it, there was nothing there.
- .3 Darkness hidden in darkness was there in the beginning; this All (was) unsignposted ocean.

Now, this is not just a catalogue of things that did or did not exist at the beginning of the world. The alternating negative and positive statements together make up a description of that primal scene. 'There was' shades into 'was there' and 'there was not' into 'was not there'; the 'there' in the latter formulations tips us over from a purely abstract idea of existence to something more contingent, presence in a particular context. So even in this most philosophical text we may consider understanding as- as 'da sein, vorhanden sein' rather than simply as 'sein'.

4 Iranian

The first meaning given for ab- by Bartholomae (1904:266-7) is 'sein sva, da sein, vorhanden sein, existieren; es gibt'. In the Old Avestan texts its use as a simple copula is still quite restricted. It does not occur in the Gathas in the third person singular or plural of the present tense, and it may be omitted even in first- and second-person statements (West 2011:3-4). We do find asti twice in the short Ašom Vohu mantra (Y 27.14), and here we may suspect that it is something more than a copula. The articulation and interpretation of the text are uncertain, but in line with my thesis it might be punctuated and understood thus:

ašəm vohū, vahištəm astī: uštā asti, uštā ahmār, hijat ašās valnītāi ašm. Right is good, the best thing there is (available); it is there (for us) as desired, for itself as desired, what(ever) best Right sees as Right.

The following Gathic passages are less ambiguous:

- at vā ustānāiš ahuuā zastāiš frīnəmnā Ahurāijā. mā uruuā gāušcā azitā, hijaţ Mazdam dunatdī frasābtīb. But we two are (here) with outstretched hands propitiating the Lord. my soul and the milch cow's, as we put Mazda to our questions.
- kada yauuā huuō anhat, yā hōi dadat zastauuat auuō? When will he ever be (there), he who will give him physical assistance?
 - pərəsä auuat, yaba huuö yə hudanušyadā huuō anhat yā.šiiaoθnascā. I ask this: how that munificent man when he will be (there), and how acting.

43.16cd astuuat ašem kiiāt, uštānā aojönhuuat;

x³ing darsıöı xšabröı **xiiā**ţ ārmaitiš,

In bodily form may Right be (present), vigorously strong; in sight of the sun with Dominion may Piety be (present).

50.7d mahmāi žiiātā auuaihē.

May ve be (there) for my succour.

In several passages the subjunctive authout or authout is used in predicting how something will turn out, as in 29.4c abd [ns] authout yabd hund wasat "it will be so [for us] as he wishes," 30.11c at abjt this authout is with "then thereafter it will be as desired," 31.5c thick: "., "As note in a supher authout is will those things that will not be or will be," as Ad Boshmi xrathin apimem nama authout "in thy sapience at the last it will be differently" (for the adtherents of good or bad thought), and 48.9d vidilide: "...yabh his siti authout "may he know how his reward is to be." "Be" in these passages implies more than just achieving existence in a particular form. It refers to how future outcomes will present themselves (worthandan sein) and be experienced by those affected.

In one passage of the Behistun inscription (DB iv 60) Darius claims that

Auramazdā-maiy upastām abara utā aniyāha bagāha tyaiy batiy.

Auramazda brought me assistance, and the other gods that there are.

Presumably the intention is not to contrast a set of gods who exist with another set who do not. In another inscription (DPd 13, 22, 24) it is

manā Auramazda upastām baratuv hadā viθaibiš bagaibiš.

Let A, bring me assistance together with the gods of my house.

So the gods tyaiy hatiy are probably the ones "that are there (for me)," "my gods." Zoroaster uses a similar expression when he says he will worship under their own (true) names those (powers) yōi āḥharaaā honticā "who have been and are" (Y 51.22b).

5 Greek

In Ebeling's Homeric lexicon, as mentioned earlier, the first meaning given for eight is vivo et vigeo'. There are certainly passages where it distinguishes living from dead persons. why the first man, it is said of the sons of Oineus (II. 2.641 [cf. 642], Od. 1.289), and people of the fiture are eorogiaeson and people of the fiture are eorogiaeson (II. 3.287, 460) or just eorogiaeson (2.119, 6.338, etc.). Yet it is not the Homeric view that the dead do not exist. They

exist, but in another place. In Od. 24.263 4 Odysseus, concealing his identity from his father Lacrtes, tells him how he asked someone he had met on the way

ἀμιοῦ ξείνωι ἔμιῶι, ἢ που ζώει τε καὶ ἔστιν ἢ ἢοη τέθνηκε καὶ εἰν Αίδαο δόμοισιν. About my friend, whether he is alive and ἔστιν Or is now dead and in Hades' halls

As &orav is contrasted with being in Hades, it evidently means 'is here in this world' (Klowski 1967;139). In IL 22,378-84, Achilles proposes a renewed assault on Troy to see whether, now that Hector has fallen, the Trojans will give in or whether they will stand fast wai' Tecroog-oiwer' doirne, "even though Hector no longer dorn." He says this standing over Hector's body, to men who are glecfully stabbing it, and at the end of his speech "the began to do unseemly things to lordly Hector" (395). So Hector has not ceased to exist. wai "Extraog-oiwer' doirne, means, in effect, "even with Hector no longer there (to help them)."

When Laertes learns that his son is alive before him and has killed the suitors of Penelope, he exclaims (Od. 24.351):

Ζεῦ πάπερ, ἢ ῥα ἔτ' ἐστὲ θεοὶ καπὰ μακρὸν "Ολυμπον. Father Zeus, in truth you gods still exist/are still there on Olympus.

In several places we find the phrase \$\theta_0 \text{is div} \text{is visually rendered}\$ "the gods who are forever" or "the evertasting gods." We cannot quarrel with the translation, but we should remember that the Homeric gods do not, like those of Epicurus, exist in a separate realm unconnected with our world: they are there to observe, react to, and intervene in human affairs. To speak of their eternal existence is to remind the hearer that they are a force in our present world and not to be forgotten. We might translate "the gods who are always there." It is the same when Hesiod warns the local squirearchs that there are gods present among us taking note of perversions of justice (OR \$\text{ac-of-local}\$).

έγγις γαρ έν αλθρώποιστι δόντες άθανατοι φράζουται... της γαρ μιούοι είσιν έπι χθουλ πουλυβοτείρη: άθανατοι Τηνός φύλακες θνητών αλθρώπουν... ή δε τε παρθένος έστι Δίνη, Δίος έκγεγανία...

Note the qualification of $\dot\epsilon\dot\theta v \tau \epsilon$ by "nearby, among mankind" and of $\dot\epsilon\dot\theta v \dot\nu$ by "(here) on earth"; with $\dot\epsilon\sigma \tau \dot\nu$ $\Delta i \kappa \eta$ we understand similarly, "is here present in our world."

Ebeling's second heading (1885:1.360) is 'il y a, es gibt'. From the many passages

⁵Elsewhere (DSe 50, XPb 27, etc.) it is simply hadā bagaibil.

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cited I will select a very few. At Od. 10.193 Odysseus, finding himself and his men on an unknown island, invites them to consider

eἴ τις ἔτ' ἔ**ντα**ν μῆτις ἐγοὐ δ' οὐκ οἴομωι **εἶνω** whether there is to be any further strategy (for us); I do not think there is any.

ĕσται/Είναι means 'be available to us'. Similarly at Od. 24.486 Zeus decrees an end to the dispute between Odysseus' family and those of the slain suitors. Let them be friends as before.

πλοῦτος δὲ καὶ εἰρήνη ἄλις ἔστω, let prosperity and peace be (there for them) in abundance.

It would have made little difference to these examples if a dative pronoun had been added. At II. 21,00 Priam says that if his sons Lykaon and Polydoros are alive, he will be able to ransom them for bronze and gold, ĕστ γὰρ ἴοδο "For it is available within," while at 23,149 a similar statement is made with a pronoun included: Antilochos says to Achilles, ĕστ του ἐνλιστο χρεισός πολύς, ἔστι δὲ χαλικός. The very common construction δῦτ το ἀστι with a dative to indicate possession rests on just this sense of the verb, 'is present, is available'.

I will add a couple more post-Homeric passages. One is from the Theogridea (515), where the poet welcomes a guest. He says he is a poor man, he "has nothing," πωρ δ στων τάρωτα πωρέξωμεν "but I will give you the best of what there is (in my house)," as if it were των ὑπαρχώτων. The Homeric equivalent is πωρεώτων, as in the formulaic line είδατα πώλλ' ἐπιθεώτα, χαριζομένη παρεώντων, of the housekeeper who sets a generous meal before a visitor. Such a use of τῶ ἀντα was recognized more widely; cf. Pl. Grg. 511 δ ἐκεῦνο ἀπωστενεῖ, ἐὰ βοθυγται, καὶ ἀφωρήσεται τᾶ ὅττα "the will kull that man if he likes, and take away his property" and other passages cited in LSJ s.v. εἰμί A I.

Another case where $\tilde{\omega}_{i}$ is clearly equivalent to $\pi \omega_{i} \tilde{\omega}_{i}$ is S. Ant. 1108–9. Kreon, finding himself in need of urgent action, shouts for all his servants: $\tilde{\tau}^{i}$ $\tilde{\tau}^{i}$ $\tilde{\sigma}^{i}$ $\tilde{\sigma}^{i}$ $\tilde{\omega}^{i}$ $\tilde{\tau}^{i}$

6 Latin

Latin see has a similar range of uses to the Greek verb, except that it is not found for 'it is possible to ...'. I will content myself with citing a number of passages from early writers where it clearly means 'is/was at hand'. First, one that recalls one of the Hittite texts quoted above, Turp. am. 194–5 Ribbeck:

simul circumspectat: who practer se neminem uidet esse, tollit aufert. At the same time he looks about: when he sees that no one but himself is (there), he pecks it up and carries it off.

Out of many passages in Plautus, diligently registered by Lodge (1901-33:2.701-2), I will pick out, from a fragment quoted by Gellius 3.3.3,

ubi is [uenter] te monebat, esses, nisi cum nihil erat. nunc etiam quod est, non estur, nisi Solt lubet.

A parasite is complaining that in his youth people did not set their mealtimes according to the sundial but ate when they were hungry:

When your belly prompted you, you would eat, except when there was nothing there.

Nowadays even what is there is not eaten except at the sun's pleasure.

Other examples include Am. 420 cadus erat uini, inde impless hirraem* "there was a jar of wine (there), I filled the jug from it," As. 195 quid si non est? "What if I haven't got (the money)?" (cf. Aul. 376, Cur. 34), Per 655 nam est ives sunt fractue, amue sunt tamen "for even if my fortunes are wrecked, I still have friends," and Rud. 841 quin occidistive extemple?: "gladius non erut, "why didn't you kill him on the spoc?" There was (I had) no sword." From prose authors: Cato Agr. 28 causto, sum wents set aut imber, effolias

aus fens "beware of digging (trees) up or transporting them when there is wind or rain," 120 ratum annum mustum eris "there will be must for the whole year" (if you follow these rules), and Var. R. 1.11.2 si omnino agua non est uiua, eisternae faciendae sub tens et lacus sub due "if there is no running water at all (on the site), you must make custerns indoors and a pond in the open."

Also relevant is the idiom quid tibi est? or just quid est? (Pl. Am. 810, Ter. An. 860, etc.), meaning "what is the matter?", that is, the thing that is besetting you.

7 Conclusion

We take similar uses for granted in English. We are as likely to say What is it? as What is the matter? And someone who asks Is there any sugar? does not mean "Does sugar exist in the universe?" but "Is sugar available here and now?" (in this house/bar/restaurant).

But it is the pervasiveness of the adessive function in the ancient languages that guarantees its antiquity, if not its primacy. In favour of its primacy is the relative ease with which the other main uses of the verb can be derived from it. The development of the existential and copulative uses, I think, is straightforward and needs no further explanation. As to the verdical use, it is not difficult to trace a line from its there't to 'is manifest' and so to 'is undeniable'. Seeing is believing. "There you are," "it is staring us in the face," "es liegt auf der Hand" are all equivalent to "it is plainly so," As noted earlier, the participle of "h_{the}: and extended forms ("grap., "papi-pa," -him-e) were especially favoured in this sense, but it was not exclusive to them. A Hittite long could confess to a sinful act by saying desirat, insureman "there it is, we did it," where "there it is it is a plain fact," it is a plain fact, it is a plain fact,"

The tidiest formulation is perhaps the following. From the general meaning 'be there', a series of more specialized uses developed: (1a) 'be on earth among the living'; (th) 'be on the cosmic scene, exist' (e.g. of gods); (2) 'be in store'; (3) 'be to hand'; (4) 'be manifest, undeniable'; (5) with nominative predicate, 'be there' in a certain condition or with a certain identity (the copulative use). There is an interesting non-IE parallel in the Akkadian verb baisi, whose range of meaning corresponds exactly to (1)-(4) above, whereas it is not used as a copula.' We may take this as a further indication that the copulative use of 'bben' is contingent, not intrinsic.

References

Bartholomac, Christian. 1904. Alsvanusches Worterbuch. Strassburg: Trübner. Bennekom, R. van. 1984. "Existential and other sentences in Ancient Greek." Mnemorma 37:37-63. Benveniste, Émile. 1960, "Étre' et 'avoir' dans leurs fonctions linguistiques." Bulletin de la Société de Linguistique de Paris 55:113-34. [Reprinted in Problèmes de linguistique générale, 187-207. Paris: Gallimard, 1066.]

Brugmann, Karl. 1904. Kurze vergleichende Grammatik der indogermanischen Sprachen. Strassburg: Trubner.

Curtius, Georg. 1866. Grundzuge der griechischen Etymologie. 2nd ed. Leipzig: Teubner.

Delbrück, Berthold. 1900. Vergleichende Syntax der indogermanischen Sprachen. Vol. 3. Strassburg: Trübner.

Ebeling, Heinrich. 1885, Lexicon Homericum, Leipzig: Teubner.

Friedrich, Johannes. 1952–66. Kurzgefaßtes hethisisches Wörterbuch. Heidelberg: Winter.

García Trabazo, José Virgilio. 2002. Textos religiosos hititas: Mitos, plegarias y rituales. Madrid. Trotta.

Geldner, Karl F. 1951. Der Rig-Veda aus dem Sanskrit ins Deutsche übersetzt. Cambridge, MA: Harvard University Press.

Goetze, Albrecht. 1929. "Die Pestgebete des Muršiliš." Kleinasiatische Forschungen 1:161-251.

Grassmann, Hermann. 1873. Wörterbuch zum Rig-Veda. Leipzig: Brockhaus.

Jamison, Stephanie W., and Joel P. Brereton. 2014. The Rigneda: The Earliest Religious Poetry of India. New York: Oxford University Press.

Kahn, Charles H. 1966. "The Greek verb 'to be' and the concept of being." Foundations of Language 2:245-65. [Reprinted in Kahn 2009;16-40.]

- 1973. The Verb 'Be' in Ancient Greek. Dordrecht: Reidel.

- . 2009. Essays on Being. Oxford: Oxford University Press.

Klockhorst, Alwin. 2008. Etymological Dictionary of the Hittite Inherited Lexicon. Leiden: Brill.

Klowski, Joachim. 1967. "Zum Einstehen der Begriffe Sein und Nichts und der Weltentstehungs- und Weltschopfungstheorien im strengen Sinne (I. Teil)." Archiv für Geschichte der Philosophe 49:121–48.

--- . 1975. Review of Kahn 1973. Gnomon 47:737-46.

Kühner, Raphael, and Bernhard Gerth. 1898. Ausführliche Grammatik der griechischen Spruche. Vol. 2: Satzlehre. Hannover: Hahn.

Lodge, Gonzalez. 1901-33. Lexicon Plantinum. Leipzig: Teubner.

Martínez Marzoa, Felipe. 1974. "Βίναι, φύσις, λόγος, ἀληθείη." Emerita 42:159-75.

Meillet, Antoine. 1937. Introduction à l'étude comparative des langues indo-européennes. 8th ed. Paris: Hachette.

Puhvel, Jaan. 1984. Hittite Etymological Dictionary. Vols. 1-2. Berlin: Mouton.

Ruijgh, C. J. 1979. Review of Kahr 1973. Lingua 48:43-83.

[°]Muršili's second Plague Prayer (CTH 378). Goetze 1929:212 \$6.3, 214 \$9.5 (cf. 216 \$10.6 alán-at, synnun-at "it (15) true [participle of al-], I did n", cf. Watkins 1967:192-3.

²See the Chicago Assyrian Dictionary, B 144-61

- Tischler, Johann. 2008. Hathituches Handwörterbuch, mit dem Wortschatz der Nachbarspruchen. 2nd ed. Innsbruck: Institut für Sprachen und Literaturen der Universität Innsbruck.
- Unal, Ahmet. 2007. Multilinguales Handwörterbuch des Hethitischen: Hethitisches, englisches, deutsches und türkssches Wörterbuch. Vol. 1. Hamburg: Kovač.
- Watkins, Calvert. 1967. "Latin söms." In Studies in Historical Linguistics in Honor of George Sherman Lane, ed. Walter W. Arndt et al., 186–94. Chapel Hill: University of North Carolina Press. [Reprinted in Selected Writings, ed. List Oliver, 2.405–13. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck, 1994.]
- West, Mattin L. 2011. Old Avestan Syntax and Stylistics, with an Edition of the Texts. Berlin: Mouton de Gruyter.

Hittite Mediopassives in -atta

KAZUHIKO YOSHIDA

1 Introduction

medialization are given in n. 12.

Calvert Watkins pointed out two types of morphological change that occurred in the basic ard sg. mediopassive ending -a in the internal history of Hittite (Watkins 1969:85-7). One is the renewal -a to -ta and the other is the renewal of -a to -atta. The second change is additive: the original ending -a came to be doubly characterized by the addition of the -ta created by the first morphological change. The first morphological change is illustrated by the verb tulys- 'be cut off' which has 3rd sg. pres. tuhhusta (OH/MS) beside tuhša (OH/NS), tuhšari (OS). The examples that Watkins adduced for the second morphological change are buittiin(ts) (OS) 'pulled' → huittijatta(t) (NH/NS), halija(ri) (OH/NS) 'kneels down' → halijattat (NH/NS), lahuuari (OH/NS) 'pours' -> lahuuatari (MH/NS), and halzua 'calls' (OS) -> halziatari (OH/NS). The first three examples are, however, not good illustrations of the replacement of -a by -atta. The element a in huittija(ti) and halija(ri) is not an ending, but part of the suffix -ia (< *-io). The form la-hu-ua-ta-ri attested at KUB 13.8:8 should probably be read la-hu-ut-ta-ri, a product of medialization with the ending -stari attached to the stem of the original 3rd sg. active labui.1 On the other hand, the fourth example clearly does show the pattern -a to -atta. The pair 3rd sg. active halzāi and ard sg. mediopassive halzīia probably belongs to an i-present with *e: zero ablaut; cf. Jasanoff 2003:111. The 3rd sg. mediopassive balzija, which goes back to a form in *-i(i)-\(\delta r.\) was later replaced by halziiatari with the old ending -a and the new ending -ta.

Other examples that unambiguously show the second morphological change are as follows:

hannarı 'decides' (OH/NS, MH/MS) \rightarrow hannatat (date indeterminate) nënri 'turus' (OH/NS), neja (MS/MS), nejat (MS/MH), nejat (OH/NS, MH/NS) \rightarrow nejattat (OH/NS) išhallari 'teası uy' (OH/MS) \rightarrow išhallatta (preterite, MH/NS)

^{&#}x27;See Yoshida 2007b:138-9 for a more detailed discussion of how luljutturs emerged. Other examples of

^{*}Retraction of the accent must have occurred in halaua before the loss of final r in Proto-Anatolian

These examples strongly suggest that this replacement was still operating during the historical period of Hittite. It is particularly significant that the above three examples together with palazintaria adduced by Watkins are all pt-verbs. It is also to be noted that none of the examples is recorded in Old Hittite original manuscripts. Mediopassive verbs in -atta that are recorded as such from the beginning of their attestation and therefore lack corresponding older forms in -a are listed below:

```
farratta! (present, OS or MH/MS) 'is divided', farratta(ti) (OH/NS),
farrattat (MH/MS) 'bides'
arrattat (MH/MS) 'bides'
arrattat (NH) 'washed hunsell'
farrattati (MH/MS) 'crushes', farratta (preterire, MH/MS)
pippattari (OH/MS) 'crushes', farratta (preterire, MH/MS)
pippattari (OH/MS) 'is able', tarrattat (NH)
zimattari (OH/MS) 'is able', tarrattat (NH)
zimattari (MH/NS) 'is finished', zimnat[*]at (NH)
dusarnattari (MH/MS) 'becaks'
```

It is striking that among the above mne examples the first six are by-verbs. As for the remaining three examples, turra- is a medium tantum, while zima- and duyarnaare mi-verbs. Furthermore, all the examples are attested in relatively late manuscripts; examples from manuscripts securely guaranteed as Old Hittite are lacking.

In this paper we shall seek to provide answers to the following two questions:

(1) Why do the great majority of mediopassives in -atta belong to bi-verbs? (2) Why are mediopassives in -atta conspicuously attested from only a relatively late period of Hittite? Rather than proceed directly to the relevant forms in -atta themselves, however, we shall turn first to an analysis of mediopassives in -ta in \$2, followed by a discussion of those in -atta in \$4.

2 Mediopassives in -ta

A morphological change comparable to the replacement of Hittite mediopassive 3rd sg. -a by -ta can be observed in the history of Sanskrit, where early Vedic has śśąż 'lies' (« *-o+) in contrast to later Vedic śźzż (AB+, < *-8x-p-). The 3rd sg. -e in the former is a descendant of the PIE 3rd sg. mediopassive ending *-o enlarged by the deictic particle *-i. The original *-o is probably also retained in Old Irish, where strong verbic betierie's usually have passives in -a dipl' without t, as seen in bermar (absolute), -bermr (conjunct). The replacement of *-o by *-to is undoubtedly due to the influence of the 3rd sg. athematic active *-t, just as ist sg. *-by-and and sg. *-type were assimilated to the active *-mand *-s, resocietively e.g. Grock (Argado-Corptior) -usa. -nc (*-mu:

Arc. Melao) - Too. In the majority of the daughter languages the innovative *-to spread to a large extent. In Greek, Latin, and Germanic, the older *-o was completely ousted by the newer *-to. In Hittite, however, a significant number of mediopassives still belong to the a-class as represented by ela *sits', kita 'becomes', etc.\(^1\)

There are some a-class 3rd sg. mediopassives that shifted to the ta-class in the historical period of Hittite. In addition to tuḥūa, tuḥīanī -> tuḥḥuāra that Watkıns pointed out, at least five examples underwent the renewal -a to -ta:

```
iuppuahhati (OH) 'cleaned' — šuppiiahtari (MH/MS)
pahia (MH/MS), pahiari (MH/MS) 'protects' — pahhattat (NH)
šunijahhati (OH/MS) 'was smitten (with discase)' — šunijahta (OH/NS)
iuppari (date indeterminable) 'sleeps' — [fluptari (OH/NS)
karia (NS) 'cuts' — karaktari (OH/NS)
```

The above examples clearly show that the morphological change $-a \rightarrow -m$ was still operating during the attested history of Hittite. Of the above verbs, let us now consider the paradigms of $bari^{-}$ (m^{i} -verb) and $pabi^{-}$ (h^{i} -verb).

		present	preterite
active pres.	ist sg.	kar-aš-mi	kar-šu-un
	and sg.	kar-aš-ti ⁶	
	3rd sg.	kar-aš-zi	kar-aś-ta
	ıst pl.	kar-šu-u-e-ni	
	and pl.	kar-aś-te-ni	
	3rd pl.	kar-ša-an-zi	kar-še-er
mp. pres.	3rd sg.	kar-ša	
	3rd pl.	kar-ša-an-ta-ri	kar-ia-an-ta-at

[&]quot;Some acholars (Oetringer 1976, Ris 1977, Kortlandt 1979 and Pooth 2000, among others) have suggested a "stative" category for the archiae conding "ae, which, according to them, shows the value of a statepassive or oppositional intransives with a functional difference from the nonstative ending. "Ae This suggestion is hard to accept because many Hittie. a-class middle verbs such as justime? 'striken', parrigue "breaks' and justing stalls" are sunnivinguously cited and not assure.

^{*}It is furthermore claimed in Yoshida 2007a; 188-9 that since -tn is overwhelmingly favored by preterrit molyopassives in Hittie, many tn-class mediopassives were created after the affireation (*-n > *-sii) that only occurred in the present tense at the pre-Hittie stage.

^{&#}x27;The following paradigms do not include the forms with the renewed jrd sg, mediopassive ending -ta-For the examples here and below I have relied on Neu 1968, Oettinger 1979, Yoshida 1990 and especially Robethorst 2008.

^{*}mi-verbs with stem-final J do not have the regular and sg. pres. ending Jr, but -tr which encroached from the five-conjugation in order to avoid parsing difficulties which would have been caused by expected double -B-; cf. titamatis 'you here', tutalajetin' you become bad'

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active pres.	ist sg. 2nd sg.	present pa-ah-ha-as-hi pa-ah-ha-as-ti	preterite pa-ah-ha-[aś-hu-u]n
	3rd sg. 1st pl. 2nd pl.	pa-ah-šu-e-nı pa-ah-ha-aś-te-ni	pa-ah-ha-as-ta
	3rd pl.	pa-ah-ša-an-zi	pa-aḥ-šer
mp. pres.	2nd sg. 3rd sg. 3rd sg. 1st pl. 2nd pl. 3rd pl.	pa-ah-ha-aš-ha pa-ah-ha-aš-ta pa-ah-šu(-ri) pa-ah-šu-ua-aš-ta pa-ah-ha-aš-du-ma pa-a-ah-ŝa-an-ta	pa-ah-ha-as-ha-as

It is evident that in both paradigms the basic stems are constant, i.e. kmr²- and pahl². This situation is the same in the remaining four verbs: sinppiiahh- (bi-verb, press 3rd sg. sinppiiahh- (pi-verb, press 3rd sg. sinppiiahh- (pi-verb, pres. 3rd sg. sinppiiahh- (pi-verb, pres. 3rd sg. mediopassive sinniahh- (pi-verb, pres. 3rd sg. sinphibh- (pi-verb, pres. 3rd sg. sinphi

While this morphological change is observed not only in mi-verbs (e.g. kars)but also in bi-verbs (pabb-), a close examination shows that it is a feature conspicuously seen in mi-verbs. As for mediopassives in -ta, which are recorded as such from
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tarmas "let, leave"). Four are media tantum (ar-'stand', arpu-'be difficult', ki-'lie', and kikbii-'become') and three are indeterminate due to lack of data (bamenk-'tie', bek-'lpus'-'bora', and table'). "Datis connection of the za-class mediopassive with mi-verbs is totally predictable from the fact that the characterizing element t of the 3rd sg. ending is at home in the mi-conjugation, not in the bi-conjugation: the 3rd sg. mediopassive of mi-verbs received a direct morphological influence from the corresponding active ending.

It is notable that some of the bi-verbs associated with the ta-class mediopassive came to have the characterizing t in the 3rd sg. active either within the prehistory or attested history of Hittite. The hi-verb au-/u- has a 3rd sg. preterite mediopassive austat characterized by the element t, which must have been transferred from the 3rd sg. preterite austa (< *au-s-t).10 Likewise, the 3rd sg. present mediopassive maustari and its preterite maustat from mau-/mu- can be explained with a similar historical account: the t in maustari and maustat is attributable to the corresponding and sg. active present mauszi (< *-ti) and preterite mausta. The a-class pahsa (MH/MS) and pahsari (MH/MS) were later replaced by the ta-class paphastat (NH), as observed earlier. It is conceivable to regard the new pabhastat as having received morphological influence from the corresponding active pahhasta (preterite, NH). There are six factitive verbs in -ahh- that have the 3rd sg. mediopassive in -ta: TR-ahtat (NS), isijahtari (MH/NS), išijahtat (NS), manijahtari (OH/NS), nakkijahtat (NH), šiunijahta (OH/NS), and tameummahhtat (NS). They are all recorded in Neo-Hittite compositions. In this connection Hoffner and Melchert (2008:217) state, "Factitive verbs in -ahh- are inflected exclusively as hi-verbs in OH (OS), but they are mostly inflected as mi-verbs in the later language." Accordingly, it is not illegitimate to assume that the element # in these mediopassives was transferred from the corresponding 3rd sg. actives. In fact, IR-ahh-/IR-nahh-, isijahh- and manijahh- have innovated mi-conjugation 3rd sg. actives, ÎR-ahta (NS), ÎR-nahta (NS), išijahta (NS), and manijahta (OH/NS), respectively, whereas poorly recorded nakkijahh-, siunijahh-, and tameummahh- have no attestations of the active.

An analogous explanation can be given to dattat (NH), in which the ending-initial -th-may have been secondarily transferred from the srd sg. active preterite datta (NS). But dattati (NS), transtarts (NS) do not have corresponding 3rd sg. actives with unmistakable -th-; the attested forms are ddi, tarndi (or tarnaizes), and tarnai (or tarnaizes), and tarnai (or tarnaizes), and tarnai (or tarnaita), respectively. Accordingly, the following explanation seems more likely for dattari, dattat, tarnattari, and tarnattat. The stems da-(< "deb₃") and tarnae-have a feature in common: they are both vocalic stems ending

^{&#}x27;hanal- and palphal- are spelling variations due to intrinsic deficiencies in the cuneiform syllabary for writing Hittite

^{*}Whether tarna- is originally a nasal-infix present or not is a problem of no immediate relevance to the present discussion.

This state of affairs probably led Friedrich (1960-77) and Kronasser (1956.203) to assume that the miverbs and m-verbs were characterized by the 3rd sg. endings -tm and -a, respectively.

¹⁰An irregular mi-conjugation 3rd sg. present audzi (< "nusti) is explained as back-formed to its corresponding 3rd sg. pretente audzi. For a detailed historical analysis of audzi, see Jasanoff 2003,120-1</p>

in a synchronically. Vowel contraction would be expected between the stem-final a and the 3rd sg. mediopassive ending a, resulting in a long å (då, tarná). This long å, whether later shortened under the influence of the short a of cia 'sis', kida 'becomes', etc. or not, would be functionally opaque in that the boundary between the stem and ending would not be formally well marked. To repair this functionally unfavorable situation, the newly created ending -ta was added so that the segmentation between the stem and ending became clear."

The 3rd sg. preterite mediopassives lättat (NH) and lattat (NH) created from the vocalic stem la- can be explained in the same manner. However, this verb has the didosyncratic 3rd sg. mediopassives lättari (NH) and laittari (NH), which should, together with librugaittat (MH/NS) from libruga-, be regarded as medialized forms secondarily created from their corresponding 3rd sg. actives, i.e. låi and librugai.

Our discussions may be summarized as follows. The majority of the ta-class mediopassives treated so far were originally mi-verbs where the characterizing 3rd sg. t was available in the active (e.g. kansthart : kanstās, kanstās) or pi-verbs which acquired the element in the 3rd sg. active within the prehistory of Hittne (e.g. mitat: natūsi, natūs) or within the attested history of Hittne (e.g. mitaphari, mitathari : mitathari : mitathari : madtino to these two groups, some original pi-verbs came to have ta-class mediopassives due to secondary morphological processes (e.g. *narma - harmattari, tarnattara and lait altitari). However, there still remains a group of ta-class mediopassives that are apparently resistant to any reasonable historical analysis. They are media tantum arputta (OH/NS), arta (OS), kitta (OS), and kikkitiari (OH/NS). How these mediopassives came to acquire i in spite of the lack of corresponding actives is quite puzziling. This problem is not easy to solve and must be reserved for a separate future study. 10 On the other hand, pi-verbs that did not acquire t in the 3rd sg. active were characterized by the 3rd sg. mediopassive ending -a (e.g. mit grows' : mitari, mitati).

3 Mediopassives in -atta

As shown in \$1, there are thirteen mediopassives which underwent the morphological change -a to -atta within the prehistory or attested history of Hittite. Among these

thirteen examples, ten are fri-verbs (funkari., funna-, mai-fuē-, tikulla-, farra-, arra-, farra-, parra-, pippa-, funai-funia-, and plazari-), one is a medium rantum (farra-) and two are mi-verbs (zinna- and dauarra-). Furthermore, the mediopassives in -atta are recorded in relatively late manuscripts and examples in manuscripts securely guaranteed as Old Hittite are lacking. In this section we will attempt to answer the two questions raised earlier in §1: (1) Why do the great majority of mediopassives in -atta elong to bi-verbs? (2) Why are mediopassives in -atta conspicuously attested from only a relatively late period of Hittite?

Let us begin by concentrating our attention on the mediopassives with a root shape *CeRH-, which comprise almost half of the relevant examples in -atta. They are hamma-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh₂-), atra-(< *hs.nh

active pres.	3rd sg.	*CóRH-ei	pret.	3rd sg.	*CoRH-e
	3rd pl.	*CeRH-nti		3rd pl.	*C&RH-ys
mp. pres.	3rd sg.	*CeRH-or	pret.	3rd sg.	*CeRH-o
	3rd pl.	*ClRH-ntor		3rd pi.	*CéRH-nto

This interpretation does not necessitate considering any morphological factors because intervocalic -RH- regularly became -RR- in Perot-Anatolian.¹⁰ The following is the paradigm of sarms, where only actually attested forms are shown.

active	sg.	EST		pł.	180	Sarraueni
		2nd	šarratti		2nd	šarratteni
		3rd	šārri, šarrāš		3rd	šarranzi
mp.	sg.	TSC		pl.	ist	
		and	<i>ŝarratta</i>		2nd	śarraddum
		and	šarrat[ta], šarrattari		and	čarvanta

It is clear that Hittite speakers came to perceive the synchronic stem as sarra- because sarra- was present throughout the paradigm. Within the internal history of Hittite,

[&]quot;It should be recalled that the renewal of - α to - $t\alpha$ is a process of inserting the active t after the stem for recharacterizing a relevant form as the third singular

[&]quot;There are additional examples which show medialization lagistrar 'lees, is laid (low)' from "labat, inettar) 'squeezes' from hip. (cf. set ag, pretente high] and labatara 'pours' from laba. (cf. and sg. present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit, set pl present labatarit plant labatarit plant labatarity and labatarity la

[&]quot;As reasonably predicted, there are more media tantum in the a-class than in the ta-class, vs. idiaums becomes evident," an's warmi, diatre lisched, before lisconde, glutari prescound, gulgari pressourd, daugaris is wobel; unama burner, at par(n) 'cooks'. The affinity of media tantum with the a-class becomes more conspicuous considering that a-class mediopassives are much smaller in number than ta-class mediopassives. Furthermore, Justima (OS) 'hou's had fallingi (OS) 'tooks' are attented in Old Hittite conginal manuscripts, but their corresponding actives are mostly found in Noo-Hattite teats, of Klockhorst 2008; 311, 711. This fact suggests that Justima diduktives renginally media tantum, 100

¹⁴ It should be noted that the last example tarrn- is not a fn-verb, but a medium tantum

[&]quot;Klockhorst (2012) claims that \$\theta_0\$-verbs of the root class originally showed an \$\theta_2\$cro pattern, not an \$\theta_0\$' pattern. However, the \$\theta_0'zero pattern seems a secondary development ascribable to a strong tendency to introduce zero-grade into the weak stem of the acrostance paradigm, as shown by Melchert (2021).

^{**}C. Octinger 1999-549 and Metchert 1984-24 n. 91, 1994/39. It is not very clear whether PIE *e became Hut. a before nH. but face are more easily accounted for by reconstructing the about partern **CRH+** "*CRH-** (**CRH-**) "*We point **CRH+* for the rule of present mechapsive, its predictable outcome would be \$CarH\u00e4n* as seen in n\u00e4allelin* 'tears up', iduyatn 'becomes evident', et; cf. Yoolida 1990-91-8.

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the original ard sg. active sarri (< *serb2-ei) was replaced by the new sarrai with the secondary thematic -a which was extracted from 3rd pl. -anzi (cf. Jasanoff 2003:65). Once the remodeled sarrās was introduced, all the present forms in the third person came to be characterized by Jarra (Jarrati, Jarranzi, Jarratta, and Jarranta). As a result, the final a of sarra, originally a part of the endings, was reinterpreted as a stemfinal element. The generalization of the new stem surra- is undeniable, because the phonologically expected sarly- (or saraly-) in 2nd sg. "sorb2-tb2ei, 1st pl. "serb2-yeni, 2nd pl. *sérh-teni, mediopassive 2nd sg. *sérh-th-e(r), and 2nd pl. *sérh-dh(u)ue(r) was completely ousted from the paradigm. The pivotal position of the third person in paradigmatic leveling, sometimes referred to as Watkins' Law, is well known. There is, however, another way to explain how the new stem surra- spread throughout the whole paradigm. It is conceivable that the Proto-Anatolian sequence *-rr- originating from the third person was analogically extended to the first and second persons in pre-Hittite before 3rd sg. bi-verbs in -ai were created. Afterwards, the secondary thematic -a- was generalized throughout the paradigm. The evidence that makes the second possibility more likely is 1st pl. harruyani.17 If -rr- had spread as part of a Watkins'-Law reanalysis of the 38g. sarra as a new stem, we would expect tpl. Sharrayani; but attested harrunani, which is simply harr- + -uani, shows that the allomorph harrspread by itself.18

The constant stem shape (C)aRRa- is essentially observed in the other five verbs with an original root shape *CzRH-:

ḥanna:: active ist sg. ḥannaḥḥi, 3rd sg. ḥannai, 3rd pl. ḥannanzi, mediopassive and sg. ḥannatta(ri), 3rd sg. ḥannari, pret. 3rd sg. ḥannatat, 2nd pl. hannadulmalt

śanna: active ist sg. śannahhi, 2nd sg. śannatti, 3rd sg. śannāt, 2nd pl. śannatten; 3rd pl. śannanzi, mediopassive 3rd sg. śannatta

arm-: active 1st sg. årraḥi, 3rd sg. årri, arrai, 3rd pl. arranzi, mediopassive 1st sg. arraḥḥari, pret. 3rd sg. arrattat

barra-: active 3rd sg. barrai, 1st pl. barruyani, 3rd pl. barranzi, mediopassive 3rd sg. barrattari, pret. 3rd sg. barratta

tarra-: mediopassive 1st sg. tarrathari, 2nd sg. tarratta, 3rd sg. tarratta, pret. 1st sg. tarrathat, 3rd sg. tarrattat¹⁹

We have seen in §2 that the renewal -a to -ta was a process in which the active 3rd sg. t was inserted between the stem and the ending -a (e.g. $karia \rightarrow karaidars$). In the coff the renewal of -a to -atta, on the other hand, the original ending -a came to be synchronically perceived as a stem-final element to which the renewed ending -ta was

added. ²⁰ As far as the ending itself is concerned, the replacement of -a by -atta can be paraphrased as the morphological change -0 to -ta (e.g. hanna-ri -) hanna-tat). What has played a cardinal role in the reinterpretation of the original ending -a as a stem-final element is the emergence of the secondary thematic -a- which is basically characteristic of hi-verbs and not a feature observed in mu-verbs. The mi-verb parhichase also has a root shape "CeRH-! Unlike hi-verbs, however, it did not obtain the secondary thematic -a-, but generalized the stem parh- (active ist sg. parahmi, and sg. parahji, 3rd sg. parahjat, parhjanta, methopassive 3rd sg. an ard pl. are secondary replacements for phonologically expected \$parrants (<"bhérh_-nti), \$parra (<"bhérh_-nti) and \$parranta (<"bhérh_-nti), \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérh_-nti) and \$parranta (<"bhérmanacta (parranta (<"bhérmanacta (parranta (<"bhérmanacta (parranta (<"bhérmanacta (parranta (p

The problem of the relatively late attestation of the mediopassives in -atta can hardly be separated from the fact that the replacement of 3rd 8g, bi-verbs in -i by -ai was still underway during the attested history of Hittite, c.g., banki hangs vs. pangan, waiti 'sins' vs. sudtai (cf. Jasanoff 2003)65). Because the renewal of -a by -atta occurred only when the original ending -a came to be perceived as part of the stem, the lack of mediopassives in -atta in Old Hittite manuscripts is a predictable phenomenon. Likewise, barrussani in Middle Hittite referred to above must reflect a state in which the generalization of the new stem in harms was incomplete. There is additional evidence for the late character of the mediopassives in -atta. Firstly, the morphological change -a to -atta was still operating in the attested history of Hittite as seen in \$i. (e.g. nija - nigitatas). Secondly, a great majority of remodeled mediopassives with -atta as well as those with -ta still preserve their original a-class status in imperative forms. ¹²
Thirdly, the ending -atta is characteristic of Huttie and is a feature not observed in Caneiform Luvian, Lycian or Palaic. These three pieces of evidence confirm that the Hittite mediopassives with -atta were relatively late creations.

The rest of this section will be devoted to analyzing the remaining seven mediopassives with -atta. As for ikiallatta (< *p4.p4t.-to, preterrite) and pippattari (< *p4.p4t.-o-to-), only a small number of forms are attested in the rest of their paradigms. ikiallana active 3rd sg. ikiallai, 3rd pl. ikiallan; pret. 1st sg. ikiallahhun and pappa- has active 3rd sg. pippau, 3rd pl. pippanzā, pret. 1st sg. pippahhun. Significantly enough, they both

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[&]quot;According to Friedrich, Kammenhuber and Hoffmann 2000:280, *Ijarruyam* is recorded in a Middle Hittite manuscript

¹⁶The n of harrunann is only graphic, an original "harru- + -uanin would have become Spharrunann "Although the medium tantum tarra- lacked an active counterpart, the remodeled stem could be transferred to the first and second persons, following the behavior of other verbs with a shape ChaRru-

²⁰This multivalence of the 3rd sg. -a was already recognized by Watkins (1969 82), who referred to its "Vieldeutigkeit."

^{*1} am now inclined to the view that parliattars should be read /parHtan/ and not /parHatan/ because of the lack of the rhematic extension -# in the paradigm. I would like to discuss this problem in detail

²⁸For example, 3rd sg. imper. neuarn beside neuatata and pahjaru beside pahjaitat. More examples are shown in Yoshida 2007a-385.

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have a remodeled ard sg. in -ai. This means that their stems were perceived synchronically as iškalla- and pippa-, to which the ending -ta was later attached in the same manner as envisaged above. nai-/nê- and halzai- show ablaut, although their apophonic patterns are different. In Old Hittite, their original ablaut patterns were quite faithfully preserved, e.g. 1st sg. nehhi, 2nd sg. naitti, 3rd sg. näi < *nóiH-, mediopassive 3rd sg. nea, 3rd pl. neanda < *neiH- and 1st sg. halzehhi, 2nd sg. halzaitti, 3rd sg. halzai < *h₂ltó-i (?), mediopassive 3rd sg. halziia < *h₂lt-iór (?). These apophonic patterns, however, were lost in Neo-Hittite, where both verbs took on a feature of mi-verbs in -ia-, e.g. 1st sg. neiami, 2nd sg. neiafi, 3rd sg. neiazzi, 3rd pl. neianzi, mediopassive 1st sg. neiahari, 2nd sg. neiattari, 3rd sg. neiari, 3rd pl. neiandari and 1st sg. halzijami, 2nd sg. halzijaši, 3rd pl. halzijanzi, mediopassive 2nd sg. halzijattari, ard sg. halzijari.23 When the remodeled fixed stems neia- and halzija- became available, nejattat and halzijatari, both Neo-Hittite forms, were probably created. Ablaut is also observed in huuai-/huia-, e.g. ard sg. huuāi < *h,uóh,-i-ei (?), ard pl. huianzi < *h,uh,-i-énti (?).24 But as in the case of nai-/nē- and halzai-, this verb came to inflect like mi-verbs in -ia- in Neo-Hittite times (cf. Kloekhorst 2008;367); e.g. 1st sg. hūiami, 2nd sg. hūiaši, 3rd sg. hūiasi, 3rd pl. hūianzi, mediopassive 3rd pl. huianda, Here again, -ta was then attached to the fixed synchronic stem būia-; hence, the remodeled 3rd sg. mediopassive hūiatta in Neo-Hittite. The remaining two verbs zinna-(< *si-ne-h, or *ti-ne-h,-25) and duuarna- (< *dbur-ne-h,-) are mi-verbs with a nasalinfix, but in later Hittite both of them came to have the irregular hi-conjugation 3rd sg. zinnāi (NH) and duuarnai (MH/MS) characterized by the secondary thematic -a-, respectively. Their existence further led to the addition of -ta to the reinterpreted stems zinna- and duuarna-; hence, zinnattari, zinnat|t|at and duuarnattari attested in Neo-Hittite manuscripts, 26

As we have discussed in detail in the preceding paragraphs, the renewal -a to -atta presupposes the existence of the secondary thematic -a-. There is no case in which mediopassives in -atta lack a corresponding 3rd sg. active in -ai or -iaz[z]i.

4 Problematic examples in -atta

There are some mediopassives in -atta in which a before -tta cannot be straightforwardly interpreted. They are arkatta (OH/MS) 'mounts', binkatta (OH/MS) 'bows', akplattari (MS) 'predicts', uebatta (MH/NS), uebattari (MH/NS), uebattari (MH/NS), apparta (NS) 'scized', suppatta (VDI/NS) 'sleeps', and lukhatta

(OS) 'get light', *lukatta* (NH), *lukkatta* (OH/NS). If not simply orthographic, these may be examples of the transformation -a to -atta. If simply orthographic, these may be examples of a to -tata Playing an important role in correctly judging these examples is our finding in \$3 that the morphological change -a to -atta is observed only when the original ending -a had come to be synchronically reinterpreted as a stemfinal element.

As for arbatta, binkatta, and tabjattari, there seems to be no way to judge whether the a before the ending-stas is real or orthographic, since their stems end in consonant clusters. But the following interpretation will be possible at least for arbatta and binkatta. As Klockhorst (2008:203) points out, arb- is originally a medium tantum and therefore lacks active forms.²³ This suggests that arbatta is to be read /arkta/ because the secondary thematic-a-was not available when it was remade from a[r-g]a.²⁴ Likewise, binkatta should be read /inikta/ because bink- is a mi-verb (1st sg. biniking) red g, binities, and pl. binkatum, 3rd pl. binkatum), which lacks the secondary thematic-a-. Regarding tabjattari, it is a hapax and there are no other forms attested in its paradigm. Accordingly, there is no linguistic information available to help us decide the correct readine.

The other examples, uehatta, uehattari, uehattat, appattat, suppattari and lukkatta, lukatta, lukkattati, will receive the same interpretation as the one given to arkatta and hinkatta. But ueh-, ep-, sup-, and luk- are more interesting in that they provide us with forms with -ta (or -a) beside those with -atta, i.e. uehtari (OH/NS), uehtat (NS), éptat (NS), [s]uptari (NS), suppari (date indeterminable) and lukta (OS), luktat (OS). Watkins (1969:87) suggested that two morphological changes operated in the case of ueh-: *ueha -> uehta and *ueha -> uehatta. This suggestion, however, cannot be accepted because uely- is a mi-verb where the thematic extension -a- is lacking (1st sg. uēļmi, 3rd sg. uēļzi, etc.). Therefore, this speaks for the reading /wehta/ for uehatta.29 For the same reason, appattat and suppattari should be read /aptat/ and /suptari/, respectively, because they are both mi-verbs (1st sg. ēpmi, 2nd sg. ēpši, 3rd sg. épzi, etc. and 3rd sg. [šu]pzi, 2nd pl. imperative šupten, etc.). As for lukkatta, Octtinger (1979:274-5) states that it does not stand for /lukta/ and assigns it to the same thematic group as sarratta, harratta, etc. However, while sarratta, harratta, etc. are unambiguously attested with the thematic extension -a- as shown in §3, luk- was originally a medium tantum which lacked it (cf. Kloekhorst 2008:531). Furthermore, despite the relatively late attestation of the other mediopassives in -atta-, both lukta and lukkatta (luggatta) are recorded in Old Hittite original manuscripts. Accordingly lukkatta should be considered a graphic variant of lukta.

³⁾The spread of the pseudo suffix -in- inside the paradigms is probably ascribed to its formal identity to the in in the weak stem.

i* Jasanoff (2003;93) assigns fuquai-fluja- to the "dai-type", to which the above-discussed futari- also belongs. The intervocalic i in fluja- is analogical to other verbs of this type such as ilpai 'becomes sated': tipijiansi (cf. Melchert 1984-10.13).

¹⁵Cf. Oettinger 1979:152 and Klockhorst 2008:1037.

³⁶In Proto-Anatolian these two nasal-infix verbs were characterized by an accented ending, i.e. *-n-C-ór. As for the problem of why they underwent final -r loss in their prehistory, see Yoshida 2011.

^{*7}The 3rd sg. airli (MH/NS) is not old. It is important to note that Sarkai is not attested.

²⁸ As in arta, etc. discussed in \$2, it remains puzzling why the renewal -a to -ta occurred in this medium tantum.

³⁹ The double -et- in uchatta is probably due to an attempt to represent its unlenited quality.

Although the mediopassives discussed in this section have the sequence -atta- graphically, none of them has compelling evidence for the reality of the first a in -atta-.

5 Conclusion

The majority of the ta-class mediopassives were originally mi-verbs where the characterizing 3rd 5g. t was available in the active (e.g. hamilari: karnizi, karniza) or bi-verbs which acquired the element t from the 3rd 5g. active within the prehistory of Hittite (e.g. usitat: auizi, auiza) or within the attested history of Hittite (e.g. ilijahptari, ilijahpta: ilijahpta). In addition to these two groups, some original bi-verbs came to have ta-class mediopassives due to secondary morphological processes (e.g. "inraa -> tarnattari, tarnattar and lai: -> laitrari). A small number of media tantum (e.g. arra) came to acquire t in spite of their lack of corresponding actives. On the other hand, bi-verbs that had not acquired t in the 3rd 5g. active were characterized by the 3rd 5g. mediopassive ending 4c (e.g. mai' grows': mijari, mijari).

While the renewal—a to—ta was a process in which the active 3rd sg. t was inserted between the stem and the ending—a (e.g. karia—b karafarar), what was relevant in the renewal of—to—ata was the reinterpretation of the original ending—a as a stem-final element to which the renewed ending—ta was added (e.g. karnar)—b karafarar). Playing a cardinal role in this reinterpretation was emergence of the secondary thematic—a-(e.g. 3rd sg. hannai) which is basically characteristic of hi-verbs and not a feature proper to mi-verbs. There is no case in which mediopassives in—ata lack a corresponding 3rd sg. active in—ai. This explains why the renewal of—a to—ata is conspicuous in hi-verbs. The relatively late attestation of the mediopassives in—ata is not surprising because the emergence of the secondary thematic—a- was still underway during the attested history of Hittite.

According to our finding that the renewal of -a by -atta is observed only when the original ending -a had come to be synchronically reinterpreted as a stem-final element, -atta- in the mediopassives created from mi-verbs such as _uelpatta should be read /-ta-/ due to the lack of the secondary thematic -a- in their paradigm.

References

- Friedrich, Johannes. 1960. Hethitisches Elementarbuch I. Heidelberg: Winter.
- Friedrich, Johannes, Annelies Kammenhuber, and Inge Hoffmann. 2000. Hethitisches Wörterbuch. Vol. 3, H. Fasc. 14. Heidelberg: Winter.
- Hoffner, Harry A., Jr., and H. Craig Melchert. 2008. A Grammar of the Hittite Language. Winona Lake: Eisenbrauns.
- Jasanoff, Jay H. 2003. Hittite and the Indo-European Verb. Oxford: Oxford University Press.

- Klockhorst, Alwin. 2008. Esymological Dictionary of the Hittite Inherited Lexicon. Leiden: Brill.
- . 2012. "Hittite "á/e"-ablauting Verbs." In The Indo-European Verb, ed. H. Craig Melchert, 151–60. Wiesbaden: Reichert.
- Kortlandt, Frederik. 1979. "Toward a reconstruction of the Balto-Slavic verbal system." Lingua 49:51-70.
- Kronasser, Heinz. 1956. Vergleichende Laut- und Formenlehre des hethitischen. Heidelberg: Winter.
- Melchert, Craig. 1984. Studies in Hittite Historical Phonology. Göttingen: Vandenhoeck & Ruprecht.
- --- . 1994. Anatolian Historical Phonology. Amsterdam: Rodopi.
- 2013. "Ablaut patterns in the Hitrite bi-conjugation." In Proceedings of the 24th Annual UCLA Indo-European Conference, ed. Stephanie Jamison, H. Craig Melchert, and Brent Vine, 137—60. Bremen: Hempen.
- Neu, Erich. 1968. Interpretation der hethitischen mediopassiven Verbalformen. Wiesbaden: Harrassowitz.
- Oettinger, Norbert. 1976. "Der indogermanische Stativ." Münchener Studien zur Sprachwissenschaft 34:109–49.
- . 1979. Die Stammbildung des hethitischen Verbums, Nürnberg: Carl.
- Pooth, Roland A. 2000. "Stativ vs. Medium im Vedischen und Avestischen." Historische Sprachforschung 113:88–116.
- Rix, Helmur. 1977. "Das keltische Verbalsystem auf dem Hintergrund des indoiranisch-griechischen Rekonstruktionsmodells." In Indegermanisch und Keltisch: Kolloquium der Indegermanischen Gesellschaft, ed. Karl Horst Schmidt, 132–38. Wiesbaden: Reichert.
- Watkins, Calvert. 1969. Indogermanische Grammatik. Vol. 3, part 1, Geschichte der indogermanischen Verbalflexion. Heidelberg: Winter.
- Yoshida, Kazuhiko. 1990. The Hittite Mediopassive Endings in -ri. Berlin: de Gruyter.
- 2007a. "The morphological history of Hittite mediopassive verbs." In Verba Decents: Studies in Historical and Indo-European Linguistic Presented to Jay H. Jasanoff by Students, Colleagues, and Friends, ed. Alan Nussbaum, 379–95. Ann Arbor: Beech Stave Press.
- 2007b. "Some irregular mediopassives in Hittite." In Proceedings of the Eighteenth Annual UCLA Indo-European Conference, ed. Karlene Jones-Bley, Martin E. Huld, Angela Della Volpe, and Miriam Robbins Dexter, 129–41. Washington, DC: Institute for the Study of Man.
- 2007c. "Hittite p\u00eda-tha-at-ta-ri." In Tabularia Hethaeorum: Hethitologische Beitr\u00edge. Silvin Kolak zum 65. Geburtstag, ed. Detlev Groddek and Maria Zorman, 719-24. Wiesbaden: Harrassowitz.
- . 2011. "Proto-Anatolian as a mora-based language." Transactions of the Philological Society 109:92–108.

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